

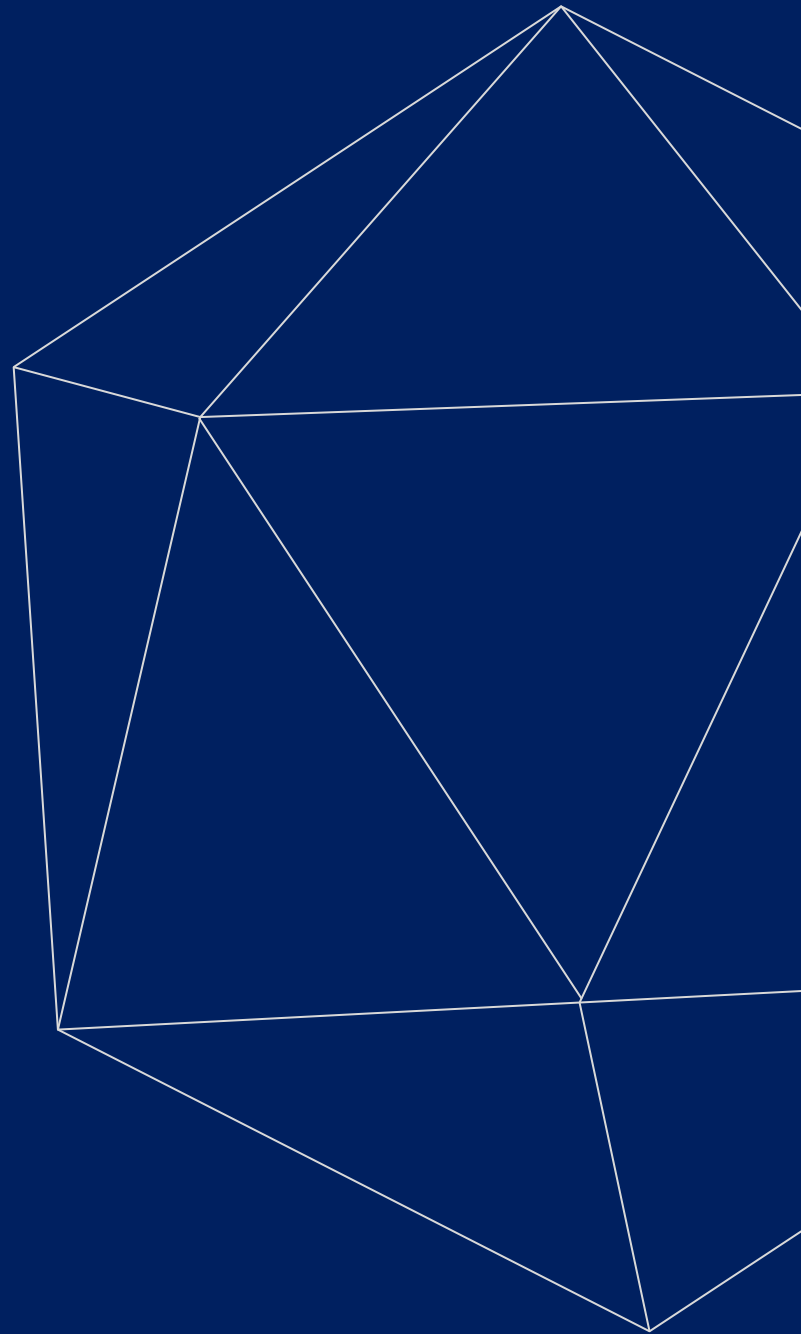


# PATHOLOGICAL ANATOMY



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**KALSTEIN® Microtomes**

*Model Series YR415-1 to YR426-1*



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## Fully Automated Rotary Microtome

### Model YR415-1

#### Overview

In the everyday routine inside a laboratory, microscopic substances and samples are very common. Most of the time it is necessary to cut some of the samples in extremely thin slices of material, known as sections. In order to prepare a sample and to make those types of cuts, you must have a microtome, a very essential device in the microscopy field. Microtome use allows the preparation of samples for observation under transmitted light or electron radiation.

#### Features:

- ✓ This machine uses a streamlined design, with advanced features, stable and reliable performance and ease of use;
- ✓ The feeding system uses an intelligent control mechanism; enabling quick switching between manual or automated smart sectioning modes; automatic slicing speed is adjustable.
- ✓ Advanced drive systems and multiple functions including sectioning, trimming, fast forward, fast backward, quick mode conversion including automatic retraction.
- ✓ Incorporates an international advanced screw motion mechanism to ensure precision, thus achieving superior sectioning performance.
- ✓ Pure-green digital display of slice thickness, trimming thickness, slice count and slice speed.
- ✓ Trimming and slicing are operated under a control system and can be switched easily. The automated slicing controller can be equipped at either the left or right side; when automated slicing controller is off, semi-auto slicing or trimming can still be performed.
- ✓ Automatic sectioning speed is continuously adjustable.
- ✓ With safety and emergency braking systems, security alarm systems, driver overload protection and an auto-sleep protection system.
- ✓ Features easy and fast switching between different specimen clamps (two options: paraffin block clamp and cassette clamp).
- ✓ Hand-wheel balance is precisely adjusted and can be locked at any position to ensure safety of operation.
- ✓ Blade holder can be laterally moved to avoid moving the blade with direct contact, thereby enabling use of the entire length of the blade. (three different segments).
- ✓ The red protection bar on the blade holder covers the whole length of blade to protect the user and the push bar enables easy changing of the blade.
- ✓ Hand-wheel balance is precisely adjusted and can be locked at any position to ensure the safety and convenience of sectioning.
- ✓ Large-volume waste tray is easy to remove, and items such as deposable blades can be stored on the top of the housing.

#### Technical Specifications:

- ✓ Section Thickness Setting Range: 0.25—100µm
  - 0.25—2.5µm increment 0.25µm
  - 2.5—5µm increment 0.5µm
  - 5.0—10µm increment 1µm
  - 10—30µm increment 2µm
  - 30—60µm increment 5µm
  - 60—100µm increment 10µm
- ✓ Trimming Thickness Setting Range: 1—600µm
  - 1—10µm increment 1µm
  - 010—020µm increment 2µm
  - 020—050µm increment 5µm
  - 050—150µm increment 10µm
  - 150—600µm increment 50µm
- ✓ Retraction Setting Range: 0—50µm ( 0 is off )
  - 5-10-15—50 (optional)
- ✓ Minimum Setting of Sectioning Thickness: 0.25µm
- ✓ Horizontal Feed: 28mm
- ✓ Vertical Specimen Stroke: 70mm
- ✓ Specimen Holder Rotation: at any angle within 360 degrees
- ✓ Movement Range of the Base of Blade Holder Base: 0-60mm (front to back)
- ✓ Movement Range of the Blade Press plate: 0-23mm
- ✓ Specimen Clamp Rotation: at any angle within 360 degrees
- ✓ Specimen Orientation: XY – 8°
- ✓ Maximum Specimen Size: 70×70mm
- ✓ Feed speed adjust: 1500µm/s ~ 3500µm/s
- ✓ Precision Error: ±1%
- ✓ Working Voltage: AC 220V±10% 50Hz (standard model); AC 110V±10% 60Hz
- ✓ Power: 150W
- ✓ Dimensions: 580× 475× 340mm(W×D×H)
- ✓ Net Weight: 41kg



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## Rotary Microtome Model YR416

### Overview

In the everyday routine inside a laboratory, microscopic substances and samples are very common. Most of the time it is necessary to cut some of the samples in extremely thin slices of material, known as sections. In order to prepare a sample and to make those types of cuts, you must have a microtome, a very essential device in the microscopy field. Microtome use allows the preparation of samples for observation under transmitted light or electron radiation.

Microtomy is a method for the preparation of thin sections for materials such as bones, minerals and teeth, and an alternative to electro polishing and ion milling. Microtome sections can be made thin enough to section a human hair across its breadth.

### Rotary Microtome

This is a very common microtome type. It operates with a staged rotary action such that the actual cutting is part of the rotary motion. In a rotary microtome, the knife is typically fixed in a horizontal position.

### Rotary Microtome Parts

Before you purchase a microtome, you should get familiar with its major parts. First, there is the microtome base plate or stage, where rails secure the knife. Second, there is the knife holder base. Then, there is the knife holder. In addition, there is the cassette clamp or block holder, which hold the paraffin block in place. Moreover, there is the coarse hand wheel and finally there is the micron adjustment.

### Rotary Microtome Uses

This rotary microtome has many great features that makes it the ideal item to have in your histology lab. First, this product adopts a streamline design, and possesses advanced features with stable performance and easy operation, the specimen feed drive is controlled by an intelligent, high precision control system, enabling semi-ultrathin slicing, starting from a thickness of 0.25µm. Secondly, the specimen feeding drive utilizes an

intelligent control system and it has high precision on cutting. Moreover, this model has advanced drive systems; multiple functions including sectioning, trimming, fast forward, fast backward, conversion, among others. In addition, this microtome adopts imported cross-roller guide rails and a screw motion mechanism to ensure precision, thus achieving superior sectioning performance.

This model has an LCD screen that shows section and trimming thickness and number of sections and trims. Another great feature is that sectioning and trimming are completed through the control system. This model is equipped with a safety alert system, drive-overload protection mechanism and an automatic standby protection mechanism. Moreover, is easy and fast switching between different specimen clamps (two options: paraffin block clamp and cassette clamp). The hand-wheel balance is precisely adjusted and can be locked at any position to ensure the safety and convenience of operation. In addition, the blade holder can be laterally moved to avoid moving the blade with direct contact, thereby utilizing the entire length of blade (three different segments). Finally, the large-volume waste tray is easy to remove, and items such as disposable blades can be stored on the top of the housing.



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## Rotary Microtome Model YR416

### Features:

- ✓ This product adopts a streamline design, and possesses advanced features with stable performance and easy operation.
- ✓ Specimen feed drive is controlled by an intelligent, high precision control system, enabling semi-ultrathin slicing, starting from a thickness of 0.25µm.
- ✓ Specimen feeding drive utilizes an intelligent control system, it has high precision on cutting.
- ✓ Advanced drive systems; multiple functions including sectioning, trimming, fast forward, fast backward, conversion etc.
- ✓ Adopts imported cross-roller guide rails and a screw motion mechanism to ensure precision, thus achieving superior sectioning performance.
- ✓ LCD screen shows section and trimming thickness, number of sections and trims.
- ✓ Sectioning and trimming are completed through the control system.
- ✓ equipped with a safety alert system, drive-overload protection mechanism and an automatic standby protection mechanism.
- ✓ Easy and fast switching between different specimen clamps (two options: paraffin block clamp and cassette clamp).
- ✓ Hand-wheel balance is precisely adjusted and can be locked at any position to ensure the safety and convenience of operation.
- ✓ Blade holder can be laterally moved to avoid moving the blade with direct contact, thereby utilizing the entire length of blade (three different segments).
- ✓ The red bar on the blade holder covers the whole length of blade to protect the user and the push bar enables the easy changing of the blade.
- ✓ Hand-wheel balance is precisely adjusted and can be locked at any position to ensure the safety and convenience of sectioning.
- ✓ Large-volume waste tray is easy to remove, and items such as disposable blades can be stored on the top of the housing.

### Technical Specifications:

- ✓ Section Thickness Setting Range: 0 - 60µm
- ✓ Trimming Thickness Setting Range: 0 - 100µm
- ✓ Section thickness adjustment:
- ✓ 0 - 1µm increment 0.25µm 1 - 10µm increment 1µm 10 - 20µm increment 2µm 20 - 60µm increment 5µm
- ✓ Total Horizontal Specimen Feed: 26 mm
- ✓ Vertical Specimen Stroke: 52 mm
- ✓ Specimen Clamp Rotation: any angle within 360 degrees
- ✓ Specimen Orientation: XY – 8°
- ✓ Automatic return of specimen
- ✓ Minimum Setting of Sectioning Thickness: 0.25µm
- ✓ Maximum Specimen Size: 50×50mm
- ✓ Precision Error: ±1%
- ✓ Working Voltage: AC 220V±10% 50Hz (standard model); AC110V±10% 60Hz
- ✓ Power: 100W
- ✓ Dimensions: 580×410×305mm(W×D×H)
- ✓ Net weight: 29kg.



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## Intelligent Sensing Semi-Automated Rotary Microtome



### Model YR416-1

#### Overview

In the everyday routine inside a laboratory, microscopic substances and samples are very common. Most of the time it is necessary to cut some of the samples in extremely thin slices of material, known as sections. In order to prepare a sample and to make those types of cuts, you must have a microtome, a very essential device in the microscopy field. Microtome use allows the preparation of samples for observation under transmitted light or electron radiation.

Microtomy is a method for the preparation of thin sections for materials such as bones, minerals and teeth, and an alternative to electro polishing and ion milling. Microtome sections can be made thin enough to section a human hair across its breadth.

#### Rotary Microtome

This is a very common microtome type. It operates with a staged rotary action such that the actual cutting is part of the rotary motion. In a rotary microtome, the knife is typically fixed in a horizontal position.

#### Rotary Microtome Parts

Before you purchase a microtome, you should get familiar with its major parts. First, there is the microtome base plate or stage, where rails secure the knife. Second, there is the knife holder base. Then, there is the knife holder. In addition, there is the cassette clamp or block holder, which hold the paraffin block in place. Moreover, there is the coarse hand wheel and finally there is the micron adjustment.

#### Rotary Microtome Uses

This rotary microtome has many great features that makes it the ideal item to have in your histology lab. First, this product adopts a streamline design, and possesses advanced features with stable performance and easy operation, the specimen feed drive is controlled by an intelligent, high precision control system, enabling semi-ultrathin slicing, starting from a thickness of 0.25µm. Secondly, the specimen feeding drive utilizes an

intelligent control system and it has high precision on cutting. Moreover, this model has advanced drive systems; multiple functions including sectioning, trimming, fast forward, fast backward, conversion, among others. In addition, this microtome adopts imported cross-roller guide rails and a screw motion mechanism to ensure precision, thus achieving superior sectioning performance.

This model has an LED screen that shows section and trimming thickness and number of sections and trims. Another great feature is that sectioning and trimming are completed through the control system. This model is equipped with a safety alert system, drive-overload protection mechanism and an automatic standby protection mechanism. Moreover, is easy and fast switching between different specimen clamps (two options: paraffin block clamp and cassette clamp). The hand-wheel balance is precisely adjusted and can be locked at any position to ensure the safety and convenience of operation. In addition, the blade holder can be laterally moved to avoid moving the blade with direct contact, thereby utilizing the entire length of blade (three different segments). Finally, the large-volume waste tray is easy to remove, and items such as disposable blades can be stored on the top of the housing.



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**Intelligent Sensing Semi-Automated Rotary Microtome**



**Model YR416-1**

**Technical Specifications:**

- Section Thickness Setting Range: 0.25 - 100µm
- ✓ 0.25 – 2.5µm increment 0.25µm
- ✓ 2.5 – 5µm increment 0.5µm
- ✓ 5.0 – 10µm increment 1µm
- ✓ 10 – 30µm increment 2µm
- ✓ 30 – 60µm increment 5µm
- ✓ 60 – 100µm increment 10µm
- Trimming Thickness Setting Range: 1 – 600µm
- ✓ 1 - 10µm increment 1µm
- ✓ 10 - 20µm increment 2µm
- ✓ 20 - 50µm increment 5µm
- ✓ 50 - 150µm increment 10µm
- ✓ 150 - 600µm increment 50µm
- Retraction Setting Range: 0—100µm ( 0 is off )
- ✓ 0-5-10-15—100 (optional)
- Whole layer interval distance range: 10 – 6000µm
- ✓ 10-12-15-20-25~5000~6000µm
- Coarse feed wheel : 100-1000um per circle
- ✓ 100-200-300-400-500-600-800-1000um
- Number of slicing : 0—9999
- Number of trimming : 0—9999
- Minimum Setting of sectioning thickness: 0.25µm
- Horizontal Specimen Feed: 25mm
- Feed speed adjust: 100-1000um per circle by coarse feed wheel; Returning speed 3500um/s
- Vertical Specimen Stroke: 70mm
- Movement range of the Base of Blade Holder: 65mm (front to back)
- Movement Range of the Blade Holder: ±20mm.
- Specimen Clamp Rotation: Left and right/up and down. At any angle within 360 degrees(optional)
- The direction and speed controlled by Coarse feed wheel: can be set
- Precise trimming function: can be turned on or off
- Memory position of clamp head: two positions
- Maximum Specimen Size:70×70mm (optional clamp)
- Precision Error:±1%
- Working Voltage: AC 220V±10% 50Hz (standard model) / AC110V±10% 60HZ
- Power:100W
- Dimension: 575×420×330 mm (W×D×H)
- Net weight:37kg

**Features:**

- ✓ This model utilizes a human oriented design, and advanced technology. It is easy to switch between cutting and trimming function, stable performance and user-friendly.
- ✓ Specimen feeding drive utilizes an intelligent control system, it has three modes:
- ✓ Conventional mode , Intelligence sensing mode and whole layer cutting mode.
- ✓ Advanced drive systems including multiple functions, sectioning, trimming, fast forward, fast backward and quick conversion.
- ✓ The imported cross-roller guide rails and a screw motion mechanism to ensure precise result in superior sectioning performance.
- ✓ OLED screen shows section and trimming thickness, as well as number of sections.
- ✓ With a security alarm system, driver overload protection system and auto-sleep protection system.
- ✓ Easy and fast switching between different specimen clamps (two options: paraffin block clamp and cassette clamp).
- ✓ Hand-wheel balance is precisely adjusted and can be locked at any position to ensure the safety of the slicing operation.
- ✓ Blade holder can be laterally moved to avoid moving the blade with direct contact, thereby utilizing the entire length of the blade (three different segments).
- ✓ The red knife guard on the blade holder covers the whole length of the blade to protect users. The push bar enables blades to be changed easily.
- ✓ Hand-wheel balance is precisely adjusted and can be locked at any position to ensure the safety and convenience of sectioning.
- ✓ Large-volume waste tray is easy to remove and clean, and items such as disposable blades can be stored on the top of the housing..



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## Rotary Microtome Model YR417

### Overview

In the everyday routine inside a laboratory, microscopic substances and samples are very common. Most of the time it is necessary to cut some of the samples in extremely thin slices of material, known as sections. In order to prepare a sample and to make those types of cuts, you must have a microtome, a very essential device in the microscopy field. Microtome use allows the preparation of samples for observation under transmitted light or electron radiation.

Microtomy is a method for the preparation of thin sections for materials such as bones, minerals and teeth, and an alternative to electro polishing and ion milling. Microtome sections can be made thin enough to section a human hair across its breadth.

### Rotary Microtome

This is a very common microtome type. It operates with a staged rotary action such that the actual cutting is part of the rotary motion. In a rotary microtome, the knife is typically fixed in a horizontal position.

### Rotary Microtome Parts

Before you purchase a microtome, you should get familiar with its major parts. First, there is the microtome base plate or stage, where rails secure the knife. Second, there is the knife holder base. Then, there is the knife holder. In addition, there is the cassette clamp or block holder, which hold the paraffin block in place. Moreover, there is the coarse hand wheel and finally there is the micron adjustment.

### Rotary Microtome Uses

This rotary microtome has many great features that makes it the ideal item to have in your histology lab. Streamlined housing not only improves the appearance but also facilitates the cleaning process without the need to open the housing. This model uses imported cross-roller guide rails and a screw motion mechanism to ensure precision resulting in superior sectioning performance. Its advanced high-precision micro-drive feed system enables even

and high precision sectioning. This model has a hand-wheel that is rotated based on a mechanical balance mechanism, and can be locked at any position, providing the maximum level of safety and convenience. The cassette holder can be locked at any position along each of the three axes, enabling easy adjustment of the specimen-sectioning angle.

There are multiple functions including specimen retraction and trimming functions, along with replaceable specimen holding system. In addition, the small coarse-advance hand-wheel is close to the operator, in accordance with an ergonomic design. The precise positioning system is not only easy to use, but also provides accurate X- and Y- axis adjustment. The blade holder can be laterally moved and adjusted, without the need to manually move the blade, that way it enables the use of the full length of the blade (slicing at three different segments). Hand-wheel balance is precisely adjusted and can be locked at any position to ensure the safety and convenience of sectioning.

**Product Name:** YR417 Rotary Microtome.

**Product Categories:** Microtome.



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## Rotary Microtome Model YR417

### Features:

- ✓ Streamlined housing not only improves the appearance but also facilitates the cleaning process without the need to open the housing.
- ✓ Uses imported cross-roller guide rails and a screw motion mechanism to ensure precision resulting in superior sectioning performance.
- ✓ Advanced high-precision micro-drive feed system enables even and high-precision sectioning.
- ✓ Hand-wheel is rotated based on a mechanical balance mechanism, and can be locked at any position, providing the maximum level of safety and convenience.
- ✓ Cassette holder can be locked at any position along each of the three axes, enabling easy adjustment of the specimen sectioning angle.
- ✓ Multiple functions including specimen retraction and trimming functions, along with replaceable specimen holding system.
- ✓ Small coarse-advance hand-wheel is close to the operator, in accordance with an ergonomic design.
- ✓ The precise positioning system is not only easy to use, but also provides accurate X- and Y- axis adjustment.
- ✓ Easy and fast switching between different specimen clamps (two options: paraffin block clamp and cassette clamp).
- ✓ The red bar on the blade holder covers the whole length of blade to protect the user and the push bar enables easy changing of the blade.
- ✓ The blade holder can be laterally moved and adjusted, without the need to manually move the blade, enabling use of the full length of the blade (slicing at three different segments).
- ✓ Hand-wheel balance is precisely adjusted and can be locked at any position to ensure the safety and convenience of sectioning.
- ✓ Well-designed tray on the top of housing, convenient use.
- ✓ Magnetically fixed large waste tray is easy to install and uninstall.

### Technical Specifications:

- ✓ Section Thickness Setting Range: 0–60µm.
- ✓ Section thickness setting options:
  - 0–20µm increment 1µm.
  - 20–60µm increment 5µm.
- ✓ Trimming Thickness Setting Range: 0 - 60µm
- ✓ Minimum Setting of Sectioning Thickness: 1µm
- ✓ Maximum Specimen Size: 70×70mm (optional clamp)
- ✓ Trimming Thickness: 15µm and 35µm
- ✓ Specimen Retraction: 60µm (optional)
- ✓ Total Horizontal Specimen Feed: 28mm;
- ✓ Vertical Specimen Stroke: 70mm
- ✓ Movement Range of the Base of Blade Holder Base: 0-60mm (front to back)
- ✓ Movement Range of the Blade Press plate: 0-23mm
- ✓ Specimen Holder Rotation: at any angle within 360 degrees
- ✓ Specimen Orientation: XY – 8°
- ✓ Precision Error: ±1%
- ✓ Dimensions: 590×500×330mm (W×D×H)
- ✓ Net weight: 37kg.



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## Semi Automated Rotary Microtome

**Model YR417-1**



### Overview

In the everyday routine inside a laboratory, microscopic substances and samples are very common. Most of the time it is necessary to cut some of the samples in extremely thin slices of material, known as sections. In order to prepare a sample and to make those types of cuts, you must have a microtome, a very essential device in the microscopy field. Microtome use allows the preparation of samples for observation under transmitted light or electron radiation.

### Features:

- ✓ This model utilizes a human oriented design, easy to switch between cutting and trimming, advanced technology, and stable performance, and is user-friendly;
- ✓ Specimen feeding drive utilizes an intelligent control system, it has three modes: Conventional mode, Intelligence sensing mode and whole layer cutting mode;
- ✓ Advanced drive systems including multiple functions, sectioning, trimming, fast forward, fast backward and quick conversion;
- ✓ Uses imported cross-roller guide rails and a screw motion mechanism to ensure precision resulting in superior sectioning performance;
- ✓ OLED screen shows section and trimming thickness, as well as number of sections;
- ✓ With a safety and emergency braking system, security alarm system, driver overload protection, auto-sleep protection system;
- ✓ Easy and fast switching between different specimen clamps (two options: paraffin block clamp and cassette clamp);
- ✓ Hand-wheel balance is precisely adjusted and can be locked at any position to ensure the safety of the slicing operation;
- ✓ Blade holder can be laterally moved to avoid moving the blade with direct contact, thereby utilizing the entire length of the blade (three different segments);
- ✓ The red bar on the blade holder covers the whole length of blade to protect the user and the push bar enables easy change of the blade;
- ✓ Hand-wheel balance is precisely adjusted and can be locked at any position to ensure the safety and convenience of sectioning;
- ✓ Large-volume waste tray is easy to remove and clean, and items such as deposable blades can be stored on the top of the housing.

### Technical Specifications:

- ✓ Section Thickness Setting Range:
 

0.25 - 100µm	
0.25 - 2.5µm	increment 0.25µm
2.5 - 5µm	increment 0.5µm

- 5.0 - 10µm increment 1µm
- 10 - 30µm increment 2µm
- 30 - 60µm increment 5µm
- 60 - 100µm increment 10µm
- ✓ Trimming Thickness Setting Range: 1 - 600µm
 

1 - 10µm	increment 1µm
10 - 20µm	increment 2µm
20 - 50µm	increment 5µm
50 - 150µm	increment 10µm
150 - 600µm	increment 50µm
- ✓ Retraction Setting Range: 0-100µm (0 is off)
- 5-10-15-50 (optional)
- ✓ Whole layer clearance distance Range: 10 - 6000µm
- ✓ Minimum Setting of Sectioning Thickness: 0.25µm
- ✓ Total Horizontal Specimen Feed: 30mm
- ✓ Vertical Specimen Stroke: 70mm
- ✓ Movement Range of the Base of Blade Holder Base: 0-65mm (front to back)
- ✓ Movement Range of the Blade Press plate: 0-20mm
- ✓ Cutting/Trimming count number: 0-9999
- ✓ Memory position of clamp head: two position set
- ✓ The optional separate wireless controller
- ✓ Specimen Clamp Rotation: at any angle within 360 degrees.
- ✓ Specimen Orientation: XY - 8°
- ✓ Maximum Specimen Size: 60×70mm (optional clamp)
- ✓ Feed speed adjust: 2000µm/s
- ✓ Precision Error: ±1%
- ✓ Working Voltage: AC 220V±10% 50Hz (standard model) / AC110V±10% 60HZ
- ✓ Power: 100W
- ✓ Dimensions: 480×410×310 mm (W×D×H)
- ✓ Net weight: 28kg



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## Rotary Microtome Model YR418

### Overview

In the everyday routine inside a laboratory, microscopic substances and samples are very common. Most of the time it is necessary to cut some of the samples in extremely thin slices of material, known as sections. In order to prepare a sample and to make those types of cuts, you must have a microtome, a very essential device in the microscopy field. Microtome use allows the preparation of samples for observation under transmitted light or electron radiation.

### Rotary Microtome

This is a very common microtome type. It operates with a staged rotary action such that the actual cutting is part of the rotary motion. In a rotary microtome, the knife is typically fixed in a horizontal position. This microtome is the perfect choice for you if what you are looking for is a standard rotary type.

### Rotary Microtome Parts

Before you purchase a microtome, you should get familiar with its major parts. First, there is the microtome base plate or stage, where rails secure the knife. Second, there is the knife holder base. Then, there is the knife holder. In addition, there is the cassette clamp or block holder, which hold the paraffin block in place. Moreover, there is the coarse hand wheel and finally there is the micron adjustment.

### Features:

- ✓ Streamlined housing not only improves the appearance but also facilitates the cleaning process without the need to open the housing; Also can put some consumables;
- ✓ Uses imported cross-roller guide rails and a screw motion mechanism to ensure precision
- ✓ resulting in superior sectioning performance;
- ✓ Advanced high-precision micro-drive feed system enables even and high-precision sectioning;
- ✓ Hand-wheel is rotated based on a mechanical balance mechanism, and can be locked at any position, providing the maximum level of safety and convenience;
- ✓ Cassette holder can be locked at any position along each of the three axes, enabling easy adjustment of the specimen sectioning angle;
- ✓ The precise positioning system is not only easy to use, but also provides accurate X- and Y- axis adjustment;
- ✓ Easy and fast switching between different specimen clamps (two options: paraffin block clamp and cassette clamp);

- ✓ The red bar on the blade holder covers the whole length of blade to protect the user and the push bar enables easy changing of the blade;
- ✓ The blade holder can be laterally moved and adjusted, without the need to manually move the blade, enabling use of the full length of the blade (slicing at three different segments);
- ✓ Ergonomic design, greatly reducing the discomfort associated with long hours of operation;
- ✓ Hand-wheel balance is precisely adjusted and can be locked at any position to ensure the safety and convenience of sectioning;
- ✓ Well-designed tray on the top of housing, convenient use;
- ✓ Magnetically fixed large waste tray is easy to install and uninstall.

### Technical Specifications:

- ✓ Section Thickness Setting Range: 0–60µm
- ✓ Section thickness setting options:
- ✓ 0–10µm increment 1µm 10–20µm increment 2µm 20–60µm increment 5µm
- ✓ Minimum Setting of Sectioning Thickness: 1µm
- ✓ Precision Error: ±1%
- ✓ Maximum Specimen Size: 60×50mm
- ✓ Total Horizontal Specimen Feed:29mm;
- ✓ Vertical Specimen Stroke:60mm
- ✓ Specimen Retraction: 0~28µm
- ✓ Specimen Orientation: XY – 8°
- ✓ Dimensions: 570×440×290mm (W×D×H)
- ✓ Net weight: 28kg



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## Rotary Microtome Model YR420

### Overview

In the everyday routine inside a laboratory, microscopic substances and samples are very common. Most of the time it is necessary to cut some of the samples in extremely thin slices of material, known as sections. In order to prepare a sample and to make those types of cuts, you must have a microtome, a very essential device in the microscopy field. Microtome use allows the preparation of samples for observation under transmitted light or electron radiation.

Microtomy is a method for the preparation of thin sections for materials such as bones, minerals and teeth, and an alternative to electro polishing and ion milling. Microtome sections can be made thin enough to section a human hair across its breadth. You should know that the model we are offering you is a high-end device that will give you the results you need, in order to accomplish the exact sample cuts.

### Rotary Microtome

This is a very common microtome type. It operates with a staged rotary action such that the actual cutting is part of the rotary motion. In a rotary microtome, the knife is typically fixed in a horizontal position. This microtome is the perfect choice for you if what you are looking for is a standard rotary type.

### Rotary Microtome Parts

Before you purchase a microtome, you should get familiar with its major parts. First, there is the microtome base plate or stage, where rails secure the knife. Second, there is the knife holder base. Then, there is the knife holder. In addition, there is the cassette clamp or block holder, which hold the paraffin block in place. Moreover, there is the coarse hand wheel and finally there is the micron adjustment.

### Rotary Microtome Uses

The section thickness setting range is 1 -35  $\mu\text{m}$  for continuous sectioning. You should know that the sectioning thickness can be set at any value  $>35 \mu\text{m}$ . The minimum setting of sectioning Thickness is 1 $\mu\text{m}$  with a precision Error of  $\pm 1\%$ . The maximum Specimen Size is 60  $\times$  40 mm. Moreover, the blade holder is capable of holding both high profile and low-profile blades. The blade holder for disposable blade and blade holder for steel blade can be quickly exchanged. Finally, its dimensions are 420  $\times$  330  $\times$  330 mm (W $\times$ D $\times$ H) and its net weight is 19 kg.

**Product Name:** YR420 Rotary Microtome.

**Product Categories:** Microtome.

### Features:

- ✓ Section Thickness Setting Range: 1 -35 $\mu\text{m}$  for continuous sectioning.

**The sectioning thickness can be set at any value  $>35 \mu\text{m}$**

- ✓ Minimum Setting of Sectioning Thickness: 1 $\mu\text{m}$ .
- ✓ Precision Error:  $\pm 1\%$ .
- ✓ Maximum Specimen Size: 60 $\times$ 40 mm.
- ✓ Blade holder is capable of holding both high-profile and low-profile blades.
- ✓ Blade holder for disposable blade and blade holder for steel blade can be quickly exchanged.
- ✓ Dimensions: 420 $\times$ 330 $\times$ 330mm (W $\times$ D $\times$ H).
- ✓ Net weight: 19kg.



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## Rotary Microtome Model YR421

### Overview

In the everyday routine inside a laboratory, microscopic substances and samples are very common. Most of the time it is necessary to cut some of the samples in extremely thin slices of material, known as sections. In order to prepare a sample and to make those types of cuts, you must have a microtome, a very essential device in the microscopy field. Microtome use allows the preparation of samples for observation under transmitted light or electron radiation.

Microtomy is a method for the preparation of thin sections for materials such as bones, minerals and teeth, and an alternative to electro polishing and ion milling. Microtome sections can be made thin enough to section a human hair across its breadth. You should know that the model we are offering you is a high-end device that will give you the results you need, in order to accomplish the exact sample cuts.

### Rotary Microtome

This is a very common microtome type. It operates with a staged rotary action such that the actual cutting is part of the rotary motion. In a rotary microtome, the knife is typically fixed in a horizontal position. This microtome is the perfect choice for you if what you are looking for is a standard rotary type.

### Rotary Microtome Parts

Before you purchase a microtome, you should get familiar with its major parts. First, there is the microtome base plate or stage, where rails secure the knife. Second, there is the knife holder base. Then, there is the knife holder. In addition, there is the cassette clamp or block holder, which hold the paraffin block in place. Moreover, there is the coarse hand wheel and finally there is the micron adjustment.

### Rotary Microtome Uses

This is a very common device in microscopic area, which is why we are giving you the high-end option according to your demands and needs. The section thickness setting range is 1 -35 µm for continuous sectioning. You should know that the sectioning thickness can be set at any value >35 µm. The maximum

Specimen Size is 50 × 40 mm. The minimum setting of sectioning Thickness is 1 µm with a precision Error of ±5?. Finally, its dimensions are 420 × 330 ×330 mm (W×D×H) and its net weight is 19 kg.

**Product Name:** YR421 Rotary Microtome.

### Product Features:

- ✓ Section Thickness Setting Range: 1 - 35µm for continuous sectioning.

**The sectioning thickness can be set at any value >35µm**

- ✓ Maximum Specimen Size:50×40mm.
- ✓ Minimum Setting of Sectioning Thickness: 1µm.
- ✓ Precision Error: ±5?.
- ✓ Dimensions: 420×330×330 mm (W×D×H).
- ✓ Net weight: 19kg.



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**Rotary Microtome  
Model YR422**

In the everyday routine inside a laboratory, microscopic substances and samples are very common. Most of the time it is necessary to cut some of the samples in extremely thin slices of material, known as sections. In order to prepare a sample and to make those types of cuts, you must have a microtome, a very essential device in the microscopy field. Microtome use allows the preparation of samples for observation under transmitted light or electron radiation.

Microtomy is a method for the preparation of thin sections for materials such as bones, minerals and teeth, and an alternative to electro polishing and ion milling. Microtome sections can be made thin enough to section a human hair across its breadth. You should know that the model we are offering you is a high-end device that will give you the results you need, in order to accomplish the exact sample cuts.

**Rotary Microtome**

This is a very common microtome type. It operates with a staged rotary action such that the actual cutting is part of the rotary motion. In a rotary microtome, the knife is typically fixed in a horizontal position. This microtome is the perfect choice for you if what you are looking for is a standard rotary type.

**Rotary Microtome Parts**

Before you purchase a microtome, you should get familiar with its major parts. First, there is the microtome base plate or stage, where rails secure the knife. Second, there is the knife holder base. Then, there is the knife holder. In addition, there is the cassette clamp or block holder, which hold the paraffin block in place. Moreover, there is the coarse hand wheel and finally there is the micron adjustment.

**Rotary Microtome Uses**

This rotary microtome has an easy-to-clean housing. The section thickness setting range is 1 -35µm for continuous sectioning. You should know that the sectioning thickness can be set at any value >25µm. The minimum setting of sectioning Thickness is 1µm with a precision Error of ±5%. The maximum Specimen Size is 40×30 mm. Moreover, blade holder can be moved forward-or-backward and left-or-right resulting in easy trimming and sectioning operations. In addition, this model has an LCD screen that shows the number of sections and trims, equipped with a safety alert system. Finally, its

dimensions are 340×335×270mm (W×D×H) and its net weight is 18.5kg.

**Features:**

- ✓ Easy-to-clean housing.
- ✓ Blade holder can be moved forward-or-backward and left-or-right resulting in easy trimming and sectioning operations.
- ✓ LCD screen shows the number of sections and trims; equipped with a safety alert system.

**Technical Specifications:**

- ✓ Section thickness range
- ✓ 0 - 25µm for continuous sectioning.
- ✓

**The sectioning thickness can be set at any value > 25µm**

- ✓ Minimum Setting of Sectioning Thickness: 1µm.
- ✓ Maximum Specimen Size:40×30mm.
- ✓ Precision Error: ± 5%.
- ✓ Dimensions: 340×335×270mm (W×D×H).
- ✓ Net weight: 18.5kg



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## Cryostat Microtome

### Model YR426

#### Overview

The YR426-1 Cryostat Microtome belongs to one class of medical equipment. It is a device for rapid pathological section analysis of human body, animal and plant tissues. It is widely used in hospitals, medical schools, forensics, animal and plant research units for pathological diagnosis, analysis, and research.

#### The machine is mainly composed of four parts:

- 1、The upper part of the machine is a microcomputer control part and panel operation, temperature display, and working status display part.
- 2、The middle part is a low-temperature freezer, which is the part for quick freezing of biopsy tissue and sectioning operation.
- 3、The lower part is the refrigeration part of the compressor unit.
- 4、The middle and rear parts are mechanical transmission and motor drive parts.

#### Scope of application

Cell pathology section, biological fiber section, etc.

#### Technical Specifications

- ✓ Chamber temperature :10°C ~ -50°C
- ✓ Freezing shelf temperature:0°C ~ -50°C
- ✓ Temperature control range of sample chuck: 10°C ~ -50°C
- ✓ Additional semiconductor refrigeration in the freezer: -60°C
- ✓ Number of freezing station : 36 pcs
- ✓ Pelletier number : 8 pcs
- ✓ Semiconductor fast cooling working time: 15 minutes
- ✓ Maximum specimen size: 55mm×80mm
- ✓ Vertical stroke: 65mm Horizontal stroke: 22mm
- ✓ Electric feed speed: 0.9mm/s、0.45mm/s
- ✓ Disinfection method : UV
- ✓ Section thickness range: 0.5μm~100μm Adjustable
  - 0.5μm~5μm Increment0.5μm 5μm~20μm Increment1μm
  - 20μm~40μm Increment2μm 40μm~100μm Increment5μm
  - Trimming thickness range :10μm~600μm Adjustable
  - 10μm~50μm Increment5μm 50μm~100μm Increment10μm
  - 100μm~600μm Increment50μm
- ✓ Specimen retraction: 0~100μm Adjustable, Increment5μm

The 10-inch color LCD touch screen can separately display the total number of slices and the total slice thickness, slice thickness, specimen retraction value, temperature control, date, time, temperature, timing sleep switch, defrost and other functions. The operation display can be set to switch between Chinese and English operation interface, which is convenient for different users all over the world to operate.

Humanized hibernation function: After selecting the hibernation state, the temperature of the freezer compartment can be automatically controlled between -1 and -9°C. After the hibernation is canceled, the sectioning temperature can be reached within 15 minutes.

Imported dual compressors refrigerate the freezing box, freezing table, knife holder, sample chuck, and tissue presser at five points respectively.

- ✓ The knife holder is equipped with a blade thruster and a knife guard to cover the full length of the blade, which protects the user safely.
- ✓ Equipped with rubber instrument rack and waste box X-axis 360°, Y-axis 12° universal rotation, snap-on tissue chuck, easier and faster to install the organization
- ✓ Anti-adhesive tissue flattening device, with specimen refrigeration, the temperature can reach -50°, which is convenient for freezing the tissue and saving operation time
- ✓ The temperature sensor self-checking function can automatically detect the working status of the sensor
- ✓ Single-layer heated glass door, effectively preventing water mist condensation Hand wheel positioning 360° locking function at any point
- ✓ The sample chuck travels to the limit position and automatically returns to the starting position function
- ✓ Dimension size(mm) : 700×760×1160mm Weight: 135 KGS



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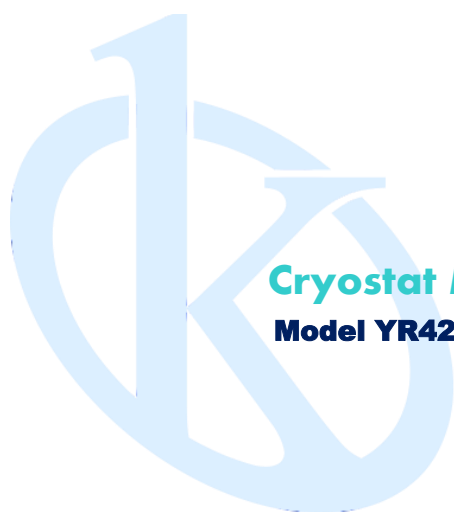
Freezing chamber temperature It can reach -30°C in 30-40 minutes



Large 10-inch color display screen

Simple operation, no need to recite complex code

Support for three built-in languages: Chinese, English and Portuguese



**Cryostat Microtome  
Model YR426**



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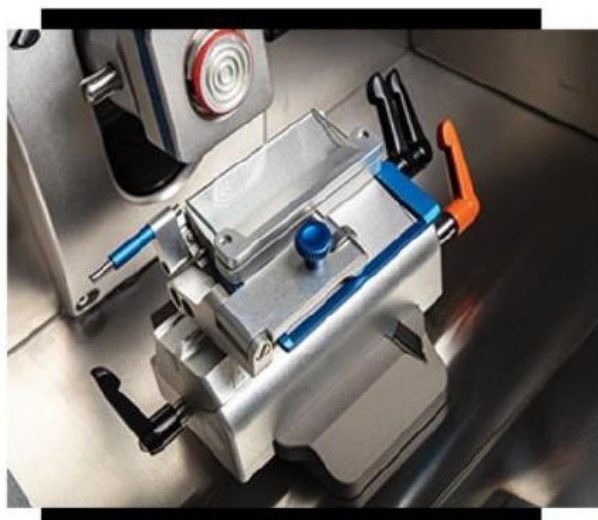




**Cryostat Microtome**  
**Model YR426**



**A GOOD**  
**HELPER FOR RAPID PATHOLOGY**



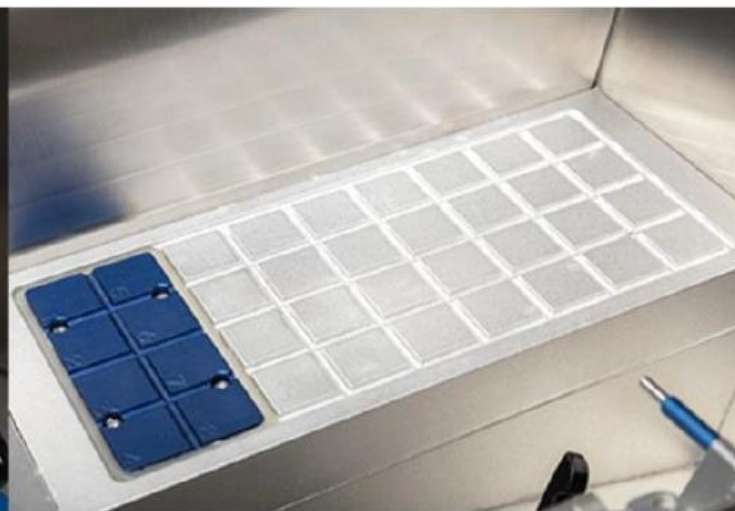
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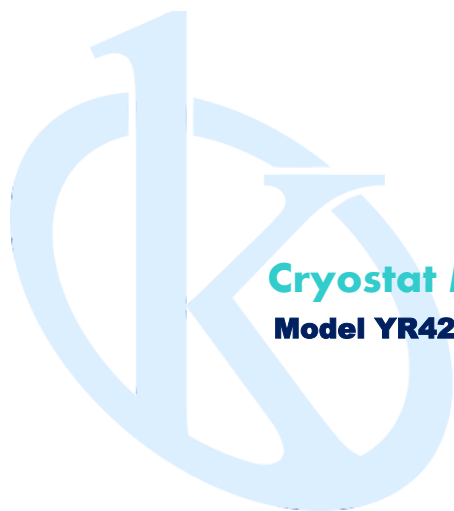
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Section thickness range  
0.5µm-100µm adjustable  
0.5µm-5µm , in0.5µm increment

Number of freezing station36  
Peltier number:8



**Cryostat Microtome**  
**Model YR426**



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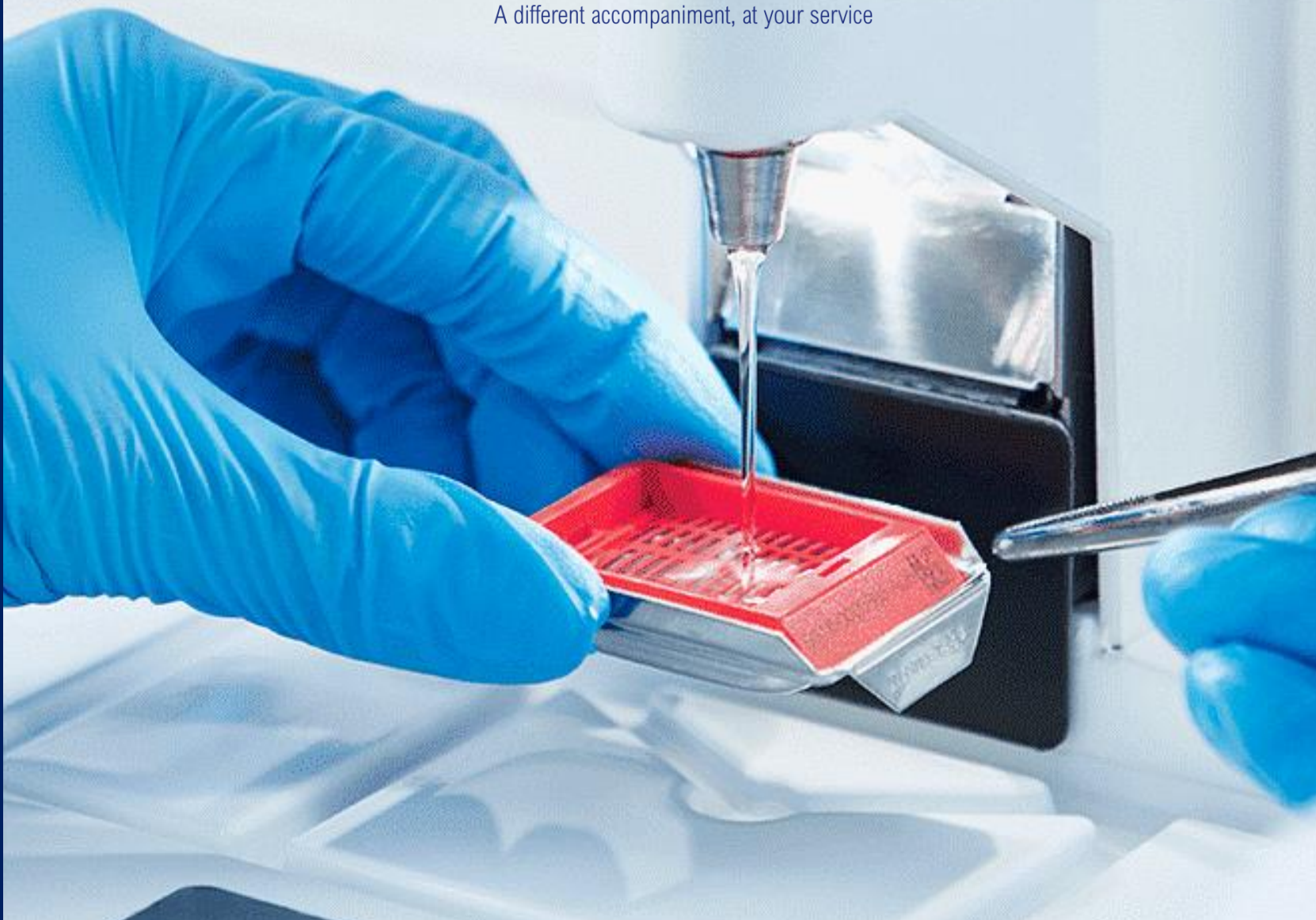
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## KALSTEIN® Tissue Processor

*Model Series YR427 to YR437*



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## Automated Tissue Processor Model YR427 (Mini Type)

### Overview

There are several important processes inside a laboratory. Testing samples and performing researches is part of the daily-bases routine. Tissue processing is a very important part of any histology laboratory.

Tissues are made from large groups of cells that cluster together to complete a shared function. A tissue processor is an instrument that is used to analyze and process samples by fixing, staining, dehydrating or decalcifying them.

### Automated tissue processor

These devices have slowly evolved to be safer in use, handle larger specimen numbers, process more quickly and to produce better quality outcomes. Most modern fluid-transfer processors employ raised temperatures, effective fluid circulation and incorporate vacuum/pressure cycles to enhance processing and reduce processing times.

### Tissue processor machine

This device features an APS-coated, streamline-design, sturdy housing with high resistance to corrosion. It has an economical, reagent saving, practical design with small footprint and low cost. It also has two sets of operating programs and two sets of time-extending programs; all built-in programs have memory function. In addition, this machine has a single-chip computer control technology that allows a complete set of functions. The cover is a well-sealed plexiglass with gas-effluxion mechanism, environmentally friendly and safe.

### Tissue processor functions

Another great feature is that this tissue processor has a large-capacity reagent cup, which means that more than 40 tissue

specimens can be processed simultaneously. You should know that this device is not affected by short blackouts or power outages during operation. The manual adjustment can be conducted anytime during the programmed automatic operation; afterwards, the system automatically enters the programmed operation. It has an internal dry heating mechanism with high-precision temperature control. Moreover, it has a two-dimensional, flexible transmission system, with low noise and wear-resistant. The high-precision photoelectric positioning control system ensures reliable operation and precise positioning. This model has a fully intelligent design, enabling timely determination and recovery from an abnormal event. About this device's technical spec, you should know that it holds 700 ml 12 cups (9 for reagents, 3 for paraffin). The length of Processing Time in the Cup is any length between 0 and 99 hours for the first cup and any length between 0 and 24 hours for the other cups. The dripping time is approximately 30 seconds. Finally, the agitation frequency is 2 times per minute.

Product Name : YR427 Automated Tissue Processor (Mini-type).  
Product Categories : Tissue Processing System.



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## Automated Tissue Processor Model YR427 (Mini Type)

### Features:

- ✓ APS-coated, streamline-design, sturdy housing with high resistance to corrosion.
- ✓ Economical, reagent saving, practical design with small footprint and low cost.
- ✓ Two sets of operating programs and two sets of time-extending programs; all built-in programs have memory function.
- ✓ Single-chip computer control technology allows a complete set of functions.
- ✓ Well-sealed plexiglass cover with gas-effluxion mechanism, environmentally friendly and safe.
- ✓ Large-capacity reagent cup: more than 40 tissue specimens can be processed simultaneously.
- ✓ Not affected by short blackouts or power outages during operation.
- ✓ Manual adjustment can be conducted anytime during the programmed automatic operation; afterwards, the system automatically enters the programmed operation.
- ✓ Internal dry heating mechanism with high-precision temperature control.
- ✓ Two-dimensional, flexible transmission system, low noise, wear-resistant.
- ✓ High-precision photoelectric positioning control system to ensure reliable operation and precise positioning.
- ✓ Fully intelligent design, enabling timely determination and recovery from an abnormal event.

### Major Technical Specifications:

- ✓ Number of Cups: 12 (9 for reagents, 3 for paraffin)
- ✓ Capacity of Each Cup: 700 ml
- ✓ Length of Processing Time in the Cup:
  - ✓ o Any length between 0 and 99 hours for the first cup
  - ✓ o Any length between 0 and 24 hours for the other cups
- ✓ Temperature Range: RT - 80°C
- ✓ Dripping Time: Approximately 30 s
- ✓ Frequency of Agitation: 2 times/minute
- ✓ Tissue Protection Cup: at the 7th station
- ✓ Working Voltage: AC220V±10% 50Hz (standard model) AC110V±10% 60Hz
- ✓ Power Requirements: 500 W
- ✓ Heating Control: heating automatically begins when the tissue enters the 2nd cup, thus avoiding unnecessary energy waste
- ✓ Dimensions: 795×435×415 mm (W×D×H)
- ✓ Weight: 50kg



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**Automated Tissue Processor  
Model YR428**

**Overview**

There are several important processes inside a laboratory. Testing samples and performing researches is part of the daily-bases routine. Tissue processing is a very important part of any histology laboratory.

Tissues are made from large groups of cells that cluster together to complete a shared function. A tissue processor is an instrument that is used to analyze and process samples by fixing, staining, dehydrating or decalcifying them.

**Automated tissue processor**

These devices have slowly evolved to be safer in use, handle larger specimen numbers, process more quickly and to produce better quality outcomes. Most modern fluid-transfer processors employ raised temperatures, effective fluid circulation and incorporate vacuum/pressure cycles to enhance processing and reduce processing times.

adjustable within 0-99 hours for the 1st station and within 0 - 24 hours for other stations. The temperature range of Paraffin Cup is adjustable within RT - 99° and it has dual protection. About the heating mechanism, it has internal dry heating automatically that begins when the tissue enters the second cup, thus avoiding unnecessary energy waste.

**Automated tissue processor machine**

This model features a fully intelligent design, enabling timely automatic determination and recovery from an abnormal event. It has a high-quality blue-colored LCD screen operated with two optional programs that offers a clear and reliable display. Manual adjustment can be conducted anytime during the programmed automatic operation; afterwards, the system automatically enters the programmed operation. Another great feature is the green inner-cycling air purification system to efficiently adsorb, and remove, poisonous gas. Finally, it has imported high-quality parts, smooth operation, low noise and ergonomic design.

The single cup capacity is 1000ml and the temperature Control Precision is ±1°C. The dripping time is adjustable within 10-60 seconds per shake/drip above cup. The agitation frequency of Agitation is 2 times per minute. The acceptable temperature range of operation environment is 0 ~ 40°C. This model has a battery backup with more than 6 hours of continual running power. The working Voltage is AC 220V±10% 50Hz (standard model) and AC110V±10% 60Hz. The power is 500 W and its dimensions are 1010 × 420 × 450 mm (W×D×H) with a net weight of 67 Kg.

**Product Name:** YR428 Automated Tissue Processor.

**Product Categories:** Tissue Processing System.

**Automated tissue processor functions**

This device has a 12 cups capacity (nine cups for reagents and three cups for paraffin). The length of Processing Time is



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**Automated Tissue Processor  
Model YR428**

**Features:**

- ✓ Fully intelligent design, enabling timely automatic determination and recovery from an abnormal event.
- ✓ High-quality blue-colored LCD screen operated with two optional programs offers a clear and reliable display.
- ✓ Manual adjustment can be conducted anytime during the programmed automatic operation; afterwards, the system automatically enters the programmed operation.
- ✓ Green inner-cycling air purification system to efficiently adsorb, and remove, poisonous gas.
- ✓ Imported high-quality parts, smooth operation, low noise, ergonomic design.

**Major Technical Specifications:**

- ✓ Number of Cups: 12 (nine cups for reagents and three cups for paraffin).
- ✓ Length of Processing Time: Adjustable within 0-99 hours for the 1st station and within 0-24 hours for other stations.
- ✓ Temperature Range of Paraffin Cup: adjustable within RT - 99°C; dual protection.
- ✓ Heating Mechanism: Internal dry heating automatically begins when the tissue enters the 2nd cup, thus avoiding unnecessary energy waste.
- ✓ Capacity of Single Cup: 1000ml.
- ✓ Temperature Control Precision:  $\pm 1^{\circ}\text{C}$ .
- ✓ Dripping Time: Adjustable within 10-60 s; shake/drip above cup.
- ✓ Frequency of Agitation: 2 times/minute.
- ✓ Battery backup with more than 6 hours of continual running power.
- ✓ Acceptable Temperature Range of Operation Environment: 0 ~ 40°C.
- ✓ Working Voltage: AC 220V $\pm 10\%$  50Hz (standard model); AC110V $\pm 10\%$  60Hz.
- ✓ Power: 500W.
- ✓ Dimensions: 1010 $\times$ 420 $\times$ 450 mm (W $\times$ D $\times$ H).
- ✓ Net weight: 67 kg.



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**Automated Tissue Processor**

**Model YR429**



**Features:**

- ✓ APS-coated, streamlined-designed, easy-to-clean, sturdy housing with high resistance to corrosion
- ✓ Imported high-quality parts, smooth operation, low noise, ergonomic design
- ✓ 20 editable programs can be stored in the system
- ✓ Integrated high-quality LCD screen with intuitive bilingual (Chinese/English) software offers clear display and simple operation; window-scrolling/flipping human-machine conversation interface provides clear instructions for each step (online help)
- ✓ Fully intelligent design enables timely determination and automatic recovery from an abnormal event
- ✓ Real-time visual simulation with icons displays working status dynamically, clearly and intuitively
- ✓ Green inner-cycling air purification system to efficiently adsorb, remove poisonous gas; gas-effluxion mechanism, environmentally friendly and safe
- ✓ This system can be automatically started at any time as programmed
- ✓ Processing duration is automatically calculated and displayed on the screen, allowing user to make a more efficient work plan
- ✓ Manual adjustment can be conducted anytime during the programmed automatic operation; afterwards, the system automatically enters the programmed operation
- ✓ Automated fan control: Stays 'on' all the time when the specimens are not submerged in cup and comes on 10 seconds every minute when the specimens are submerged in cup and in processing
- ✓ Automated light control:
- ✓ stays 'on' all the time during programming;

- ✓ stays 'off' during the automatic operation and can be automatically turned 'on' anytime by touching the screen or any key and stays 'on' for 2 minutes.
- ✓ Internal dry heating mechanism with high-precision temperature control
- ✓ Low-energy-consuming control circuit with power protection function.
- ✓ When power outage occurs, the screen displays as normal with a scrolling bar demonstrating the 'on' status of the power protection system.
- ✓ Battery backup with more than 30 hours of running power
- ✓ Approximately 80 tissue specimens can be dehydrated at the same time

**Technical Specifications:**

- ✓ Number of Cups: 12 (9 for reagents, and the cups at the 10th, 11th, and 12th stations are used for paraffin melting)
- ✓ Capacity of Each Cup: 1500ml
- ✓ Length of Processing Time in the Cup:
- ✓ Any length for the first cup (Extended Time)
- ✓ Any length between 0 and 24 hours for the other cups
- ✓ Temperature Range: RT - 80°C
- ✓ Dripping Time: Adjustable within 10-60 s; shake/drip above cup
- ✓ Frequency of Agitation: Adjustable within 0-6 times/minute
- ✓ Tissue Protection Station: any station from the 1st to 7th station as preset
- ✓ Working Voltage: AC220V±10% 50Hz (standard model); AC110V±10% 60Hz
- ✓ Power: 500 W
- ✓ Dimensions: 1055×480×495 mm (W×D×H)
- ✓ Net weight: 75 kg



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**Automated Tissue Processor**

**Model YR430**



**Features:**

- ✓ Imported high-quality parts, smooth operation, low noise, ergonomic design
- ✓ Integrated high-quality LCD screen with intuitive bilingual (Chinese/English) software offers a clear display and simple operation; window-scrolling/flipping human-machine conversation interface provides clear instructions for each step (online help)
- ✓ Well-sealed plexiglass cover with gas-effluxion mechanism, environmentally friendly and safe
- ✓ Fully intelligent design, enabling timely determination and automatic recovery from an abnormal event
- ✓ This system can be automatically started at any time as programmed
- ✓ Processing duration is automatically calculated and displayed on the screen, allowing user to make a more efficient work plan
- ✓ 20 editable programs can be stored in the system
- ✓ Manual adjustment can be conducted anytime during the programmed automatic operation; afterwards, the system automatically enters the programmed operation.
- ✓ Frequency of agitation can be adjusted within a range of 0-6 times/minute (0 indicates no agitating), allowing, thorough, sufficient, and uniform reagent infiltration
- ✓ Automated fan and light control:
- ✓ The light will 'on' for two minutes when the device is on and in operation.
- ✓ Fan is 'on' all the time when the specimens are not submerged in cup or during programming, and runs for 10 seconds every minute when the specimens are submerged in cup and in processing
- ✓ Green inner-cycling air purification system to efficiently adsorb

and remove poisonous gas

Internal dry heating mechanism with high-precision temperature control

Low-energy-consuming control circuit with power protection function: when a power outage occurs, the screen displays as normal with a scrolling bar demonstrating the 'on' status of the power protection system.

✓ Imported high-quality parts, smooth operation, low noise and ergonomic design

✓ Approximately 110 tissue samples can be processed at the same time

**Technical Specifications:**

- ✓ Number of Cups: 12 (the cups at the 10th, 11th, and 12th stations are used for paraffin melting)
- ✓ Capacity of Each Cup: 1.8 L
- ✓ Temperature range: RT - 80°C ±1°C
- ✓ Length of Processing Time in the Cup: Any length for the first cup (Extended Time)
- ✓ Any length between 0 and 24 hours for the other cups
- ✓ Dripping Time: Adjustable within 10-60 s; shake/drip above cup
- ✓ Frequency of Agitation: Adjustable within 0-6 times/minute
- ✓ Working Voltage: AC220V 50Hz; AC110V 60Hz
- ✓ Working Voltage: AC 220V±10% 50Hz (standard model); AC110V±10% 60Hz
- ✓ Power: 500W
- ✓ Dimensions: 1135×465×490 mm (W×D×H)
- ✓ Net weight: 80kg



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## Automated Tissue Processor Model YR431



### Overview

These devices have slowly evolved to be safer in use, handle larger specimen numbers, process more quickly and to produce better quality outcomes. Most modern fluid-transfer processors employ raised temperatures, effective fluid circulation and incorporate vacuum/pressure cycles to enhance processing and reduce processing times.

### Features:

- ✓ Imported high-quality parts, smooth operation, low noise, ergonomic design
- ✓ Integrated high-quality LCD screen with intuitive English software offers a clear display and simple operation; window-scrolling/flipping human-machine conversation interface provides clear instructions for each step (online help)
- ✓ Fully intelligent design, enabling timely determination and automatic recovery from an abnormal event
- ✓ Real-time visual simulation with icons displays working status dynamically, clearly and intuitively
- ✓ Green inner-cycling air purification system to efficiently adsorb and remove poisonous gas; well-sealed gas-effluxion mechanism to effectively improve the operational environment, environmentally-friendly and safe
- ✓ This system can be automatically started at any time as programmed
- ✓ Processing duration is automatically calculated and displayed on the screen, allowing user to make a more efficient work plan
- ✓ 20 editable programs can be stored in the system
- ✓ Manual adjustment can be conducted anytime during the programmed automatic operation; afterwards, the system automatically enters the programmed operation
- ✓ Automated fan control: Stays 'on' all the time when the specimens are not submerged in cup and 10 seconds every minute when the specimens are submerged in cup and processing
- ✓ Automated light control:
  - stays 'on' all the time during programming;
  - stays 'off' during the automatic operation and can be automatically turned 'on' anytime by touching the screen or any key and stays 'on' for 2 minutes.
- ✓ Internal dry heating mechanism with high-precision temperature control
  - Automatically determines the time of heating for energy efficiency
- ✓ Low-energy-consuming control circuit with power protection function
  - When a power outage occurs, the screen displays as normal with a scrolling bar demonstrating the 'on' status of the power protection system
  - Battery backup with more than 30 hours of running power
- ✓ Approximately 150 tissue samples can be processed at the same time



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**Automated Tissue Processor  
Model YR431**

**Technical Specifications:**

- ✓ Number of Cups: 12 (The 1st to 9th stations for reagents and the 10th to 12th stations for paraffin melting)
- ✓ Capacity of Each Cup: 2000 ml
- ✓ Temperature Range: RT - 80
- ✓ Temperature Control Precision: ±1
- ✓ Length of Processing Time in the Cup:
  - Any length for the first cup (Extended Time)
  - Any length between 0 and 24 hours for the 2nd to 12th cup
- ✓ Dripping Time: Adjustable between 10s and 60s; shake/drip function above cup
- ✓ Frequency of Agitation: Adjustable within 0 - 6 times/minute
- ✓ Tissue Protection Station: any station from the 1st to 7th station as preset
- ✓ Working Voltage: AC220V±10% 50Hz (standard model) AC110V±10% 60Hz
- ✓ Power: 500 W
- ✓ Dimensions: 1170×465×535mm (W×D×H)
- ✓ Net weight: 85kg

There are several important processes inside a laboratory. Testing samples and performing researches is part of the daily-bases routine. Tissue processing is a very important part of any histology laboratory.



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## Fully Automatic Enclosed Tissue Processor

**Model YR431-1**

### Technical Specifications:

- ✓ Bottle amount : 12. 1 - 9 for dehydration reagent, 14 - 16 for cleaning agent
- ✓ Nos of Reagent Station: 12
- ✓ Tissue Processing Station: NO.1 to No.9 Station
- ✓ Washing Station: No.14 to No.16 Station
- ✓ Nos of Wax Tank: 3(No.10,12 and 13)
- ✓ Nos of Working Station: 1
- ✓ Capacity of Processing Station: 9Liters
- ✓ Capacity of Reagent Station : 6L
- ✓ Temp. of Processing Station: ≤45°C
- ✓ Medium is the solvent: ≤45°C
- ✓ Medium is the Wax: 58°C-70°C
- ✓ Operation pressure: <0.1Mpa
- ✓ Wax temperature :58°C-70°C
- ✓ Wax melt time not more than 3 hours
- ✓ Power input: <1500VA+10%
- ✓ Time for immerse: 0 - 99 hours 59 minutes
- ✓ Working Voltage:220VAC±10%,50/60HZ
- ✓ Time for Inflow Liquid: no more than 5Min
- ✓ Time for Exclude Liquid: no more than 5Min
- ✓ Stirring time: set randomly
- ✓ Interval time for Stirring: set randomly
- ✓ Operation mode: manual and automatic

### Main Features:

- ✓ Operator Interface of 15 inch color LCD touch screen
- ✓ Enclosed Tissue treatment system with no pollution of gas leakage, to meet requirement of environmental protection.
- ✓ Mode of Sample processing: Sample not move, Reagent move.
- ✓ it can avoid the risk of power failure of machine, or other mechanical failure.
- ✓ Timing Mode: Finishing time of tissue processing any day in the week can be set
- ✓ Function of Protection System of Power Failure. Once main power restored, the previous protocols is automatically resumed and continue to work in order.
- ✓ 10 Set of Programs stored in the system and can be set for purpose.
- ✓ Special design of Reagent Station makes the liquid totally back-flow to avoid any mixture and to extend using time of reagent.
- ✓ Patented design of cassette holder makes reagent and samples thoroughly contact with each other, it improves effecting of tissue processing and reduce working time.
- ✓ Dual Purpose of processing: one key switch normal processing motion and Rapid processing motion
- ✓ Rapid Processing motion stirred in daytime finished in 3 hours, Normal Processing Motion stirred in the evening.
- ✓ Device for Air pressure transfer: Formal air pressure transfer of several solenoid valves replaced by One single mechanical structure replace formal in order to avoid high fault error.
- ✓ Function for changing wax automatically:
- ✓ Wax in No.1 Container wash into waste container, then, wax in NO.2 container goes into No.1 Container, then, No.3 goes into No.2, and so on
- ✓ Function of over temperature protection occurred by accidental heating
- ✓ Function for magnetic stirring which shorten time of tissue processing and make good processing effecting.
- ✓ Alarm and Screen display when finishing work.
- ✓ Capacity of tissue processing: 400pcs cassette at most.



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**Fully Automated Tissue Processor (Dual-basket; wide intelligent colored touch screen)**

**Model YR432**

**Features**

- ✓ Flexible transmission system, low noise, wear-resistant.
- ✓ Imported high-quality parts, high-precision positioning system smooth operation, ergonomic design.
- ✓ Two sets of operation mechanisms doubles the processing capacity. Tissue specimens can be separately placed into different baskets according to size, texture, and origin, thus improving processing performance optional single-mechanism mode for processing a smaller number of tissue specimens to ease the operation.
- ✓ 20 editable programs for each of A and B can be stored in the system.
- ✓ Integrated high-quality LCD screen with intuitive bilingual (English) software offers clear display and simple operation; window-scrolling/flipping human-machine conversation interface provides clear instructions for each step (online help).
- ✓ Fully intelligent design, enabling timely determination and automatic recovery from an abnormal event.
- ✓ Real-time visual simulation with icons displays working status dynamically, clearly and intuitively.
- ✓ Green inner-cycling air purification system to highly efficiently adsorb and remove poisonous gas; well-sealed gas-effluxion mechanism to effectively improve the operational environment.
- ✓ This system can be automatically started at any time as programmed (Setting Range 0-99 hours and 0-59 minutes). Processing duration is automatically calculated and displayed on the screen, allowing the user to make a more efficient work plan.
- ✓ Automated fan control: Stays 'on' all the time when the specimens are not submerged in cup and 10 seconds every minute when the specimens are submerged in cup and in processing.
- ✓ Automated light control: stays 'on' all the time during programming; stays 'off' during the automatic operation and can be automatically turned 'on' anytime by touching the screen or any key and stays 'on' for 2 minutes.

- ✓ Internal dry heating mechanism and triple protection channels offer high-precision automatic gradient temperature control. Automatically determines the time of heating, thus increasing energy efficiency.
- ✓ Low-energy-consuming control circuit with power protection function. When power outage occurs, the screen displays as normal with a scrolling bar demonstrating the 'on' status of the power protection system. Battery backup with more than 30 hours of running power.
- ✓ Power Protection Station: Station 7 for A basket and Station 5 for B basket, ensuring continued operation during a power outage.
- ✓ Manual operation can be conducted anytime during the programmed automatic operation, allowing user to check or add tissue specimens during the operation.
- ✓ 200 or more specimens can be processed at the same time.

**Major Technical Specifications**

- ✓ Number of Cups: 14(10 for reagents, and the cups at the 11th, 12th, 13th, and 14th stations are used for paraffin melting).
- ✓ Number of baskets: 2.
- ✓ Capacity of Each Cup: 1500ml.
- ✓ Temperature range: RT - 80°C.
- ✓ Temperature Control Precision: ±1°C.
- ✓ Length of Processing Time in the Cup: Any length between 0 and 99 hours for the 1st and 2nd cup, any length between 0 and 24 hours for the 3rd to 14th cup.
- ✓ Dripping Time: Adjustable within 10s - 60s; shake/drip above cup.
- ✓ Frequency of Agitation: Adjustable within 0 - 6 times/minute.
- ✓ Working Voltage: AC220V±10%50HZ (standard model); AC110V±10% 60HZ.
- ✓ Power Requirements: 550W.
- ✓ Dimensions: 1250×440×495 mm (W×D×H).
- ✓ Weight: 92kg.



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## Fully Automated Tissue Processor (Dual-basket; wide intelligent colored touch screen)

**Model YR432-1**

### Features:

- ✓ Flexible transmission system, low noise, wear-resistant
- ✓ High-precision, low-noise, and wear-resistant photoelectric positioning system using imported high-quality elements to ensure stable and smooth operation all within an ideal ergonomic design
- ✓ Two sets of operation mechanisms doubles the processing capacity. Tissue specimens can be separately placed into different baskets according to size, texture, and origin, thus improving processing performance
- ✓ Optional single-mechanism mode for processing a small number of tissue specimens easing the operation
- ✓ Scrolling processing mode multiplies the processing capacity of the system – one device can do the amount of work equal to multiple single-basket machines.
- ✓ A processed basket can be continuously used following another basket that is in processing without interruption, thus achieving a continuous cycling operation and maximizing the processing capacity of the system
- ✓ 20 editable programs for each of A and B mechanisms can be stored in the system
- ✓ Integrated high-quality colored super large LCD touch-screen offers clear display and simple operation; window-scrolling/flipping human-machine conversation interface provides clear instructions for each step (online help)
- ✓ Fully intelligent design, enabling timely determination and automatic recovery from an abnormal event
- ✓ Real-time visual simulation with icons displays working status dynamically, clearly and intuitively
- ✓ Green inner-cycling air purification system to highly efficiently adsorb and remove poisonous gas; well-sealed gas-effluxion mechanism to effectively improve the operation environment, environmentally friendly and safe
- ✓ This system can be automatically started at any time as programmed (Setting Rang 0-99 hours and 0-59 minutes)
  - ✓ Processing duration is automatically calculated and displayed on the screen, allowing the user to make a more efficient work plan
- ✓ Power Protection Station: Station 7 for A basket and Station 5 for B basket, ensuring continued operation during a power outage.
- ✓ Automated fan control: Stays 'on' all the time when the specimens are not submerged in cup and 10 seconds every minute when the specimens are submerged in cup and in processing
- ✓ Automated light control:
  - ✓ stays 'on' all the time during programming;
  - ✓ stays 'off' during the automatic operation and can be automatically turned 'on' anytime by touching the screen or any key and stays 'on' for 2 minutes.
- ✓ Internal dry heating mechanism and triple protection channels offer high-precision automatic gradient temperature control
  - ✓ Automatically determines the time of heating, resulting in energy efficiency
- ✓ Low-energy-consuming control circuit with power protection function
  - ✓ When power outage occurs, the screen displays as normal with a scrolling bar demonstrating the 'on' status of the power protection system
  - ✓ Battery backup with more than 30 hours of running power
- ✓ Manual operation can be conducted anytime during the programmed automatic operation, allowing user to check or add tissue specimens during the operation
- ✓ 250 or more specimens can be processed at the same time



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**Fully Automated Tissue Processor (Dual-basket; wide intelligent colored touch screen)**

**Model YR432-1**

**Overview**

These devices have slowly evolved to be safer in use, handle larger specimen numbers, process more quickly and to produce better quality outcomes. Most modern fluid-transfer processors employ raised temperatures, effective fluid circulation and incorporate vacuum/pressure cycles to enhance processing and reduce processing times.

**Technical Specifications:**

- ✓ Number of Cups: 14(10 for reagents, and the cups at the 11th, 12th, 13th, and 14th stations are used for paraffin melting)
- ✓ Two baskets;
- ✓ Capacity of Each Cup: 2000ml
- ✓ Temperature range: RT - 800C;
- ✓ Temperature Control Precision: ±10C;
- ✓ Length of Processing Time in the Cup:
  - ✓ Any length between 0 and 99 hours for the 1st and 2nd cup
  - ✓ Any length between 0 and 24 hours for the 3rd to 14th cup
- ✓ Dripping Time: Adjustable within 10s - 60s; shake/drip above cup
- ✓ Frequency of Agitation: 0 - 6 times/min adjustable;
- ✓ Dehydration basket is divided into three layers to ease the categorization of tissue.
- ✓ Working Voltage: AC 220V±10% 50Hz (standard model); AC110V±10% 60Hz
- ✓ Power: 550W
- ✓ Dimensions: 1370×440×525 mm (W×D×H)
- ✓ Weight: 102kg



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## Fully Automated Tissue Processor Model YR435

### Overview

The staining process is a routine technique that reveals exceptional detail of tissue structure and makeup of the cells. It is a very common auxiliary technique in the microscopy field. In the staining process, the operator highlights the structures in biological tissues and that allows a more detailed look of the sample.

Tissues are made from large groups of cells that cluster together to complete a shared function. A tissue processor is an instrument that is used to analyze and process samples by fixing, staining, dehydrating or decalcifying them.

### Fully automated tissue processor

In the medical field, the staining process defines and examine bulk tissues, cell populations or organelles within individual cells. In the biochemistry field, the staining process involves adding a class specific dye to a substrate to qualify or quantify the presence of a specific compound.

### Automated tissue processor machine

This model has an integrated imported high-quality LCD touch-screen with intuitive software offers clear display; prompt response, high efficiency, and simple operation. It also has a unique ergonomic design of the staining protocol that meets different users' needs. Its low noise, wear-resistant flexible transmission system uses imported high-quality materials and elements to ensure reliable performance. It has an intelligent automatic water influx/efflux/drainage system that ensures the cleanness of water used in each step and improves water

efficiency. In addition, this model has a special staining basket allows prompt staining of dozens of slides, which is a safe, reliable and green process. Slides are rinsed and cleaned with circulating water, and it has a drying function.

### Automated tissue processor

About these tissue stainer technical specifications, there is to say that its number of processing cups is 14 (12 cups for reagents, the one at the 8th station for washout, and the one at the 1st station for drying). The processing time length for each station is adjustable within 0 min 0 s - 59 min 59 s for each station. It has a single cup capacity of 1500 ml. The number of slides to be processed at same time is 72 pieces. Its working voltage is AC 220V±10% 50Hz (standard model); AC110V±10% 60Hz. In addition, it power requirements is 500 W. Moreover, its general dimensions are 1180 mm × 420 mm × 470 mm (W×D×H) and its net weight is 70 Kg.



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## Fully Automated Tissue Processor Model YR435

### Features:

- ✓ Integrated imported high-quality LCD touch-screen with intuitive software offers clear display, prompt response, high efficiency, and simple operation.
- ✓ Unique ergonomic design of the staining protocol meets different users' needs.
- ✓ Low noise, wear-resistant flexible transmission system using imported high-quality materials and elements to ensure reliable performance.
- ✓ Intelligent automatic water influx/efflux/drainage system ensures the cleanness of water used in each step and improves water efficiency.
- ✓ Special staining basket allows prompt staining of dozens of slides, which is a safe, reliable and green process.
- ✓ Slides are rinsed and cleaned with circulating water, and it has the drying function.

### Technical Specifications:

- ✓ Number of Processing Cups: 14 (12 cups for reagents, the one at the 8th station for washout, and the one at the 1st station for drying).
- ✓ Length of Processing Time for each station: Adjustable within 0 min 0 s - 59 min 59 s for each station.
- ✓ Capacity of Single Cup: 1500ml.
- ✓ Number of slides to be processed at same time: 72pcs.
- ✓ Working Voltage: AC 220V±10% 50Hz (standard model); AC110V±10% 60Hz.
- ✓ Power Requirements: 500W.
- ✓ Dimensions: 1180×420×470 mm (W×D×H).
- ✓ Net weight: 70kg.



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**Tissue Slide Stainer  
Model YR435-1**

The staining process is a routine technique that reveals exceptional detail of tissue structure and makeup of the cells. It is a very common auxiliary technique in the microscopy field. In the staining process, the operator highlights the structures in biological tissues and that allows a more detailed look of the sample.

Tissues are made from large groups of cells that cluster together to complete a shared function. A tissue processor is an instrument that is used to analyze and process samples by fixing, staining, dehydrating or decalcifying them.

### **Tissue processor/staining machine**

In the medical field, the staining process defines and examine bulk tissues, cell populations or organelles within individual cells. In the biochemistry field, the staining process involves adding a class specific dye to a substrate to qualify or quantify the presence of a specific compound.

#### **Features:**

- ✓ Electronic Module design the Stainer meet requirements either conventional staining or special staining for different laboratories.
- ✓ And staining can achieve simultaneously or individually for good effecting.
- ✓ Color Touch screen make date-in and search convenient, different staining program and the progress displayed in the interface.
- ✓ Staining program started by color code, and it constantly shown on the Interface.
- ✓ 10 Sets programmes,10 pcs staining rack can be processed simultaneously, and any program runs in anytime.
- ✓ 26 Reagent Station, two of them can be standby station.it optimize staining progress when several staining rack works simultaneously.
- ✓ Staining rack enter and come out by up and downloading drawers.2 racks for upload, and 3 racks for download.
- ✓ Mechanical arm reach at any station in 1 second at high speed.

- ✓ Rising and Falling Frequency for staining rack can be set capacity of staining: 400pcs slides in one hour

#### **Technical Specifications :**

- ✓ Capacity of Staining Rack : 30pcs slides
- ✓ Loading Capacity: up to 10 different Racks for different program (Continuous Loading)
- ✓ Numbers of Station : 36
- ✓ Numbers of Reagent station : 26
- ✓ Numbers of Washing Tank : 5
- ✓ Capacity of Reagent Station : 500ml
- ✓ Numbers of Uploading : 2
- ✓ Numbers of downloading : 3
- ✓ Numbers of Programme : 10
- ✓ Touch Screen : 10.4 inch colorful
- ✓ Working Voltage : AC220V±10%,50/60HZ
- ✓ Power Draw : 200W
- ✓ Overall Dimension : 1050mm×615mm×590mm(W X D X H)
- ✓ Net Weight : 115kg



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**Fully automated slide staining**



**Model YR436-1**

## Overview

With its small footprint, Kalstein's mini compact device can be placed near the sectioning area for optimal workflow. With its intuitive touch screen interface and convenient human-machine communication, operation is easy-to-learn and simple-to-use. Integrated touch screen with intuitive high-intelligence control system offers a full set of functions, reliable performance, and simple operation.

## Features:

- ✓ Imported OLED module display, clear writing, you can clearly observe the display data from any angle
- ✓ The interface layout is reasonable, the working status icon is displayed and the button LED indicates, the working status is clear at a glance
- ✓ Full automatic program control by computer, can be preset to turn on and off at any time every week
- ✓ The integrated temperature measurement block imported from the United States has high precision and reliable performance.
- ✓ Independent seven channel PID temperature control, do not affect each other
- ✓ Using a new type of flexible heating element, rapid heating, uniform heating, energy saving and reliable
- ✓ Double overheat protection device; safe and reliable
- ✓ With memory and automatic recall functions, the preset temperature is automatically retained after operation
- ✓ Two modes of operation, manual mode to start and stop immediately, automatic mode with power off memory, call auto power function
- ✓ The left and right boxes are enlarged, suitable for all kinds of dewatering baskets. The inner and outer boxes are separate design, which is convenient to take out and change the wax and maintain.
- ✓ Enlarged tweezer storage table, large and small tweezers can be placed, unique diversion groove design to prevent paraffin overflow
- ✓ Large capacity wax bath to ensure mass tissue inlay can be completed in one go
- ✓ The cold light source low-voltage lighting system adopts imported CPU constant current independent control, and the brightness is continuously adjusted without flickering.
- ✓ Soft touch automatic switch, dual control flow wax design foot switch, two ways to choose at will
- ✓ Perfect wax flow system design, automatic wax outlet, precise position and convenient inlay operation .

## Technical Specifications:

- ✓ Number of Cups: 15 ( Station 1 is for drying, Station 2 is for washing, and other 13 stations are for reagents)
- ✓ Capacity of Each Cup: Approximately 350ml
- ✓ Length of Processing Time in the Cup: Adjustable within 0 – 59 minutes and within 0 -59 seconds
- ✓ Temperature Control Precision: ±1%
- ✓ Dripping Time: Adjustable within 0-60s
- ✓ Agitating frequency: Adjustable within 0-6 times/minute
- ✓ 9 usernames and passwords can stored in the system to ensure the safety of each user's staining protocol and each user can program 25 sets of staining protocols
- ✓ Working Voltage: AC220V±10% 50Hz (standard model); AC110V±10% 60Hz
- ✓ Power: 400W
- ✓ Dimensions: 925×250×260 mm (W×D×H)
- ✓ Weight: 27kg



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## Automated Tissue Processor Model YR436-2

### Overview

There are several important processes inside a laboratory. Testing samples and performing researches is part of the daily-bases routine. Tissue processing is a very important part of any histology laboratory.

Tissues are made from large groups of cells that cluster together to complete a shared function. A tissue processor is an instrument that is used to analyze and process samples by fixing, staining, dehydrating or decalcifying them.

### Features:

- ✓ Imported high-quality parts, smooth operation, low noise, ergonomic design
- ✓ Fully intelligent design, enabling timely determination and automatic recovery in an abnormal event
- ✓ Wide LCD touch screen and convenient human-machine interface provides user clear and sufficient information about working status (online help)
- ✓ Processing duration is automatically calculated and displayed on the screen, allowing user to develop a more efficient work plan
- ✓ 4 sets of editable programs in each of Chinese and English can be stored in the system and can be queried online
- ✓ Intelligent automatic water influx/efflux/ pressure-control system and water drainage system ensures sufficient washing performance at each step and improves water efficiency
- ✓ 36 processing and staining protocols can be programmed and stored in the system, includes an operation error alert function
- ✓ Green inner-cycling air purification system to efficiently adsorb and remove poisonous gas

- ✓ Real-time visual simulation with icons displays working status dynamically, clearly and intuitively.

### Technical Specifications:

- ✓ Number of Cups: 18 (Station 10 is for washing and Station 1 is for drying)
- ✓ Number of slides processed at the same time: 52 slides
- ✓ Length of Processing Time in the Cup:  
Adjustable within 0 - 59 minutes and within 0 -59 seconds
- ✓ Dripping Time: Adjustable within 0-30 s (shakes above cup)
- ✓ Working Voltage: AC 220V±10% 50Hz (standard model); AC110V±10% 60Hz
- ✓ Power: 500 W
- ✓ Dimensions: 1175×460×470 mm (W×D×H)
- ✓ Weight: 71kg



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**Tissue Processor/Stainer  
Model YR437**

**Tissue Processor/Staining Machine**

In the medical field, the staining process defines and examine bulk tissues, cell populations or organelles within individual cells. In the biochemistry field, the staining process involves adding a class specific dye to a substrate to qualify or quantify the presence of a specific compound.

**Tissue Processor Machine**

This tissue processor/stainer features an all-in-one design (dehydration processing and staining) that ensures maximum space and reagent savings. It has a fully intelligent design that enables timely determination and automatic recovery during an abnormal event. In addition, its LCD display (Chinese/English) dehydration processing protocol and staining protocol is clear and reliable. You should also know that it has 20 dehydration processing protocols and 4 staining protocols. Its green inner-cycling air purification system efficiently adsorbs and remove poisonous gas. Moreover, it has an internal dry heating mechanism with high-precision temperature control. On the other hand it has an automatic power protection that ensures that the operation will not be interrupted and the processing performance will not be influenced by power outages. Its

imported high-quality parts provides smooth operation, low noise and an ergonomic design.

**Tissue Processor Functions**

This model features 16 processing cups 12 stations for reagents; three stations (the 14th, 15th, and 16th station) for heating, and the 7th station is for washing. The dehydration processing time length is adjustable within 0 - 99 hours for the 1st station and within 0 - 24 hours for the 2nd-6th and 11th - 16th station). In addition, station 11 is a tissue-dehydration protection power outages station. The staining length is adjustable within 0 - 59 minutes and 0 - 59 seconds for the 1st-14th station. Moreover, 40 or more specimens can be dehydrated and 52 slides can be stained at the same time. Its working voltage is AC 220V±10% 50Hz (standard model); AC110V±10% 60Hz. In addition, its power requirements is 500W. Finally, its general dimensions are 1055×470×470 mm (W×D×H) and its net weight is 73Kg.

**Product Name: YR437 Tissue processor/Stainer.**

**Product Categories: Staining Machine.**



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**Tissue Processor/Stainer  
Model YR437**

**Features:**

- ✓ All-in-one design (dehydration processing and staining) ensures maximum space and reagent savings
- ✓ Fully intelligent design, enabling timely determination and automatic recovery during an abnormal event
- ✓ LCD display (English) of dehydration processing protocol and staining protocol, clear and reliable
- ✓ 20 dehydration processing protocols and 4 staining protocols
- ✓ Green inner-cycling air purification system to efficiently adsorb and remove poisonous gas
- ✓ Internal dry heating mechanism with high-precision temperature control
- ✓ Automatic power protection ensures that the operation will not be interrupted, and the processing performance will not be influenced by power outages.
- ✓ Imported high-quality parts, smooth operation, low noise, ergonomic design

**Technical Specifications:**

- ✓ Number of Cups: 16 (12 stations for reagents; three stations (the 14th, 15th, and 16th station) for heating, and the 7th station for washing)

- ✓ Length of Dehydration Processing Time: Adjustable within 0-99 hours for the 1st station and within 0-24 hours for the 2nd-6th and 11th-16th station)
- ✓ Tissue-dehydration protection station ( protection the tissue by power outages): Station 11
- ✓ Length of Staining: Adjustable within 0-59 minutes and 0-59 seconds for the 1st-14th station
- ✓ Temperature Range of Paraffin Chamber: RT - 80°
- ✓ Heating Mechanism: internal dry heating
- ✓ Capacity of Each Cup: 750 ml
- ✓ 40 or more specimens can be dehydrated, and 52 slides can be stained at the same time
- ✓ Temperature Control Precision:  $\pm 1^{\circ}\text{C}$
- ✓ Frequency of agitating: 0 – 6 times/min
- ✓ Battery backup with more than 6 hours of continual running power
- ✓ Working Voltage: AC 220V $\pm 10\%$  50Hz (standard model); AC110V $\pm 10\%$  60Hz
- ✓ Power: 500W
- ✓ Dimensions: 1055 x470 x470mm (WxDxH)
- ✓ Net weight: 73 kg



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**KALSTEIN® Tissue Slide Stainer**

*Model Series YR435-1*



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**Tissue Slide Stainer  
Model YR435-1**

The staining process is a routine technique that reveals exceptional detail of tissue structure and makeup of the cells. It is a very common auxiliary technique in the microscopy field. In the staining process, the operator highlights the structures in biological tissues and that allows a more detailed look of the sample.

Tissues are made from large groups of cells that cluster together to complete a shared function. A tissue processor is an instrument that is used to analyze and process samples by fixing, staining, dehydrating or decalcifying them.

### **Tissue processor/staining machine**

In the medical field, the staining process defines and examine bulk tissues, cell populations or organelles within individual cells. In the biochemistry field, the staining process involves adding a class specific dye to a substrate to qualify or quantify the presence of a specific compound.

#### **Features:**

- ✓ Electronic Module design the Stainer meet requirements either conventional staining or special staining for different laboratories.
- ✓ And staining can achieve simultaneously or individually for good effecting.
- ✓ Color Touch screen make date-in and search convenient, different staining program and the progress displayed in the interface.
- ✓ Staining program started by color code, and it constantly shown on the Interface.
- ✓ 10 Sets programmes,10 pcs staining rack can be processed simultaneously, and any program runs in anytime.
- ✓ 26 Reagent Station, two of them can be standby station.it optimize staining progress when several staining rack works simultaneously.
- ✓ Staining rack enter and come out by up and downloading drawers.2 racks for upload, and 3 racks for download.
- ✓ Mechanical arm reach at any station in 1 second at high speed.

- ✓ Rising and Falling Frequency for staining rack can be set capacity of staining: 400pcs slides in one hour

#### **Technical Specifications :**

- ✓ Capacity of Staining Rack : 30pcs slides
- ✓ Loading Capacity: up to 10 different Racks for different program (Continuous Loading)
- ✓ Numbers of Station : 36
- ✓ Numbers of Reagent station : 26
- ✓ Numbers of Washing Tank : 5
- ✓ Capacity of Reagent Station : 500ml
- ✓ Numbers of Uploading : 2
- ✓ Numbers of downloading : 3
- ✓ Numbers of Programme : 10
- ✓ Touch Screen : 10.4 inch colorful
- ✓ Working Voltage : AC220V±10%,50/60HZ
- ✓ Power Draw : 200W
- ✓ Overall Dimension : 1050mm×615mm×590mm(W X D X H)
- ✓ Net Weight : 115kg



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Tissue Slide Stainer  
Model YR435-1



Visit our Youtube Channel to see the functioning of this model!

<https://youtu.be/M9CerajUccI>



KALSTEIN - Colorant pour lames de tissus YR435-1

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**KALSTEIN® Tissue Embedding Center**

*Model Series YR439 to YR448*



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**Tissue Embedding Center**

**Model YR439**



In histology labs, a very common procedure is the tissue sampling, processing and staining. This is a very common and delicate process that needs to be done in the proper way, in order to not compromise the lab results. Tissue processing is about the diffusion of substances into and out of porous tissues. The diffusion process happens when you process reagents to equal concentrations inside and outside tissue blocks.

When processing a sample, you need to take into consideration several variables such as the temperature. In the histology laboratory, the tissue processing describes the stages where the sample goes through dehydration and clearing and then goes through the tissue embedding process. Most of the time, tissues are most conveniently processed through dehydration, clearing and infiltration stages automatically.



**Tissue embedding center**

The paraffin embedding procedure is a very common one in any histology lab. This is the standard method to produce blocks of tissue for section cutting. Usually, this procedure is performed using an embedding center, surrounding the tissues by a medium such as paraffin wax, which when cooled and solidified will provide sufficient support for section cutting.

differences. System provides fast heating and precise temperature control. Finally, the dual-protection from overheating is safe, reliable and energy saving.

**Product Name:** YR439 Tissue Embedding Center.  
**Product Categories:** Embedding Center.

**Tissue embedding center parts and functions**

Temperature, pressure and vacuum and agitation are very important factors that can affect the tissue processing technique. For example, you can avoid high infiltration temperatures because marked tissue shrinkage and hardening by maintaining embedding waxes 2-3°C above their melting points. On the other hand, high pressure facilitates infiltration of dense specimens with the more viscous embedding media. Finally, tissues agitation during processing ensures an adequate fluid exchange and in automatic tissue processors, continual motion of tissue containers and flow of processing fluids is maintained.

**Features**

- ✓ Fully programmable computer controls allow automatic system start and stop anytime (weekly).
- ✓ Temperature is controlled by microprocessors made in the USA and they are displayed using color-changing LEDs to enable clear visibility of working status.
- ✓ Five heated areas, including Paraffin Chamber, Paraffin Dispenser, left and right Thermal Storage Compartments, and heating plate (working area), are individually controlled and work independently without interference from each other.
- ✓ Flexible heating mechanism overcomes the shortcomings of traditional technology that can result in excessive temperature differences. System provides fast heating and precise temperature control. In addition, the dual-protection from overheating is safe, reliable and energy-saving.
- ✓ Automatic memory and restoration functions: After startup, all preset temperature data are automatically stored in the system.
- ✓ Flexible module configuration options through a design which separates the Cryo Module from Embedding Module.
- ✓ Safe and reliable low-voltage illumination system.
- ✓ Heated working plate and forceps wells make tissue embedding more convenient.
- ✓ Large granite working area eases the cleanup of excessive paraffin.

**Tissue embedding equipment**

This model features fully programmable computer controls that allow automatic system start and stop at any time (weekly). The systems temperature is controlled by USA microprocessors and they display using color-changing LEDs to enable clear visibility of working status. This tissue-embedding center has five heated areas, including Paraffin Chamber, Paraffin Dispenser, left and right Thermal Storage Compartments, and heating plate (working area); they are individually controlled and work independently without interference from each other. In addition, it has a flexible heating mechanism that overcomes the shortcomings of traditional technology resulting in excessive temperature



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**Tissue Embedding Center**

**Model YR439-1**



**Features**

- ✓ Imported OLED module display, clear writing, you can clearly observe the display data from any angle
- ✓ The interface layout is reasonable, the working status icon is displayed, and the button LED indicates, the working status is clear at a glance
- ✓ Fully automatic program control by computer, can be present to turn on and off at any time every week
- ✓ The integrated temperature measurement block imported from the United States has high precision and reliable performance.
- ✓ Independent seven channel PID temperature control, do not affect each other
- ✓ Using a new type of flexible heating element, rapid heating, uniform heating, energy saving and reliable
- ✓ Double overheat protection device; safe and reliable
- ✓ With memory and automatic recall functions, the present temperature is automatically retained after operation
- ✓ Two modes of operation, manual mode to start and stop immediately, automatic mode with power off memory, call auto power function
- ✓ The left and right boxes are enlarged, suitable for all kinds of dewatering baskets. The inner and outer boxes are separate design, which is convenient to take out and change the wax and maintain.
- ✓ Enlarged tweezer storage table, large and small tweezers can be placed, unique diversion groove design to prevent paraffin overflow
- ✓ Large workbench design with wax block repair device, multi-functional use
- ✓ Equipped with universal metal hose magnifier, users can be adjusted according to their needs, suitable for the organization and operation of very small samples.
- ✓ Imported semiconductor random small cold table, instant cooling, convenient for rapid sample positioning and embedding, and improve work efficiency
- ✓ Large capacity wax bath to ensure mass tissue inlay can be completed in one go
- ✓ The cold light source low-voltage lighting system adopts imported CPU constant current independent control, and the brightness is continuously adjusted without flickering
- ✓ The lighting adopts the universal metal hose design, the lighting angle can be adjusted arbitrarily, and it is more convenient to observe the tissue samples.
- ✓ Imported valve adjusts the flow rate of the wax nozzle, suitable for various tissue inlay treatments
- ✓ Soft touch automatic switch, dual control flow wax design foot switch, two ways to choose at will
- ✓ Perfect wax flow system design, automatic wax outlet, precise position and convenient inlay operation

**Technical Description**

- ✓ Model: YR439-1
- ✓ Paraffin Chamber Capacity ≥ 6 liters
- ✓ Temperature ranges RT – 85 °C:
- ✓ Temperature control precision ± 1%
- ✓ Paraffin flow control Paraffin flow control via touch plate and optional pedal
- ✓ Fully programmable ON / OFF control allows automatic start and stop from the system at any time weekly
- ✓ Paraffin Chamber Dimensions (BMIV) 495 × 132 × 95 mm (width x depth x height)
- ✓ Thermal camera dimensions (each) 240 × 160 × 50mm (width x depth x height)
- ✓ Keying module workspace 540 mm × 93 mm
- ✓ Small cold plate dimensions 60 × 50 mm
- ✓ Operating voltage: AC 220V ± 10% 50Hz (standard model); AC110V ± 10% 60Hz
- ✓ Power: 1000W
- ✓ Dimensions: 670×575×395mm(W x D x H)
- ✓ Net weight: 38.5kg



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## Tissue Embedding & Cooling System Model YR441

In histology labs, a very common procedure is the tissue sampling, processing and staining. This is a very common and delicate process that needs to be done in the proper way, in order to not compromise the lab results. Tissue processing is about the diffusion of substances into and out of porous tissues. The diffusion process happens when you process reagents to equal concentrations inside and outside tissue blocks.

When processing a sample, you need to take into consideration several variables such as the temperature. In the histology laboratory, the tissue processing describes the stages where the sample goes through dehydration and clearing and then goes through the tissue embedding process. Most of the time, tissues are most conveniently processed through dehydration, clearing and infiltration stages automatically.



### Features:

- ✓ Fully programmable computer controls allow automatic system start and stop anytime
- ✓ (weekly);
- ✓ Temperature is controlled by microprocessors made in the USA and they are displayed
- ✓ using color-changing LEDs to enable clear visibility of working status;
- ✓ Five heated areas, including Paraffin Chamber, Paraffin Dispenser, left and right Thermal
- ✓ Storage Compartments, and heating plate (working area), are individually controlled and
- ✓ work independently without interference from each other;
- ✓ Flexible heating mechanism overcomes the shortcomings of traditional technology that can
- ✓ result in excessive temperature differences. System provides fast heating and precise
- ✓ temperature control. In addition, the dual-protection from overheating is safe, reliable and
- ✓ energy-saving;
- ✓ Automatic memory and restoration functions: After startup, all preset temperature data are
- ✓ automatically stored in the system;
- ✓ Flexible module configuration options through a design which separates the Cryo Module
- ✓ from Embedding Module;
- ✓ Safe and reliable low-voltage illumination system;
- ✓ Heated working plate and forceps wells make tissue embedding more

convenient;

- ✓ Large granite working area eases the cleanup of excessive paraffin.

### Technical Specifications:

- ✓ 70°C is set as the paraffin-heating temperature based on the latest internationally accepted
- ✓ principles indicating that tissue embedded in paraffin might be damaged due to excessive
- ✓ shrinkage of paraffin blocks when heating temperature is above 70°C
- ✓ Paraffin Chamber Capacity: 3 liters
- ✓ Temperature Range of Forceps Wells: 55 - 70°C
- ✓ Temperature Range of Paraffin-melting Chamber: 55 - 70°C
- ✓ Temperature Range of Thermal Storage Compartments: 55 - 70°C
- ✓ Temperature Range of Heated Working Areas: 55 - 70°C
- ✓ Temperature Range of Paraffin dispenser: 55 - 70°C
- ✓ Temperature Control Precision:  $\pm 1\%$
- ✓ Paraffin Flow Control: Paraffin flow control via finger touch plate and optional foot pedal
- ✓ Fully programmable ON/OFF control allows automatic system start and stop anytime weekly
- ✓ Working Temperature of Cryo-Module:  $\leq -20^{\circ}\text{C}$
- ✓ Working Voltage: AC 220V $\pm 10\%$  50Hz (standard model); AC110V $\pm 10\%$  60Hz
- ✓ Power: 650W/, 300W
- ✓ Dimensions: 525 $\times$ 550 $\times$ 385 mm (W $\times$ D $\times$ H)/ 590 $\times$ 345 $\times$ 385 mm (W $\times$ D $\times$ H)
- ✓ Net weight: 26kg/ 27kg



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**Tissue Embedding Center**  
**Model YR442**

When processing a sample, you need to take into consideration several variables such as the temperature. In the histology laboratory, the tissue processing describes the stages where the sample goes through dehydration and clearing and then goes through the tissue embedding process. Most of the time, tissues are most conveniently processed through dehydration, clearing and infiltration stages automatically.

**Tissue embedding center**

The paraffin embedding procedure is a very common one in any histology lab. This is the standard method to produce blocks of tissue for section cutting. Usually, this procedure is performed using an embedding center, surrounding the tissues by a medium such as paraffin wax, which when cooled and solidified will provide sufficient support for section cutting.



**Tissue embedding center parts and functions**

Temperature, pressure and vacuum and agitation are very important factors that can affect the tissue processing technique. For example, you can avoid high infiltration temperatures because marked tissue shrinkage and hardening by maintaining embedding waxes 2-3°C above their melting points. On the other hand, high pressure facilitates infiltration of dense specimens with the more viscous embedding media. Finally, tissues agitation during processing ensures an adequate fluid exchange and in automatic tissue processors, continual motion of tissue containers and flow of processing fluids is maintained.

**Tissue embedding equipment**

This model features fully programmable computer controls that allow automatic system start and stop at any time (weekly). It has an automatic memory and restoration functions: After startup, all preset temperature data are automatically stored in the system. This tissue-embedding center has five heated areas, including

Paraffin Chamber, Paraffin Dispenser, left and right Thermal Storage Compartments, and heating plate (working area); they are individually controlled and work independently without interference from each other. In addition, it has a flexible heating mechanism that overcomes the shortcomings of traditional technology resulting in excessive temperature differences. System provides fast heating and precise temperature control. Moreover, the dual-protection from overheating is safe, reliable and energy saving. The cryo module working temperature is  $\leq -20^{\circ}\text{C}$ . Its temperature control precision is  $\pm 1\%$ . Finally, its dimensions are 560 mm x 550 mm x 385 mm (WxDxH) and its net weight is 35 Kg.

**Product Name:** YR442 Tissue Embedding Center.

**Product Categories:** Embedding Center.



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## Tissue Embedding Center

**Model YR445**

In histology labs, a very common procedure is the tissue sampling, processing and staining. This is a very common and delicate process that needs to be done in the proper way, in order to not compromise the lab results. Tissue processing is about the diffusion of substances into and out of porous tissues. The diffusion process happens when you process reagents to equal concentrations inside and outside tissue blocks.

When processing a sample, you need to take into consideration several variables such as the temperature. In the histology laboratory, the tissue processing describes the stages where the sample goes through dehydration and clearing and then goes through the tissue embedding process. Most of the time, tissues are most conveniently processed through dehydration, clearing and infiltration stages automatically.



### Tissue Embedding Center Parts and Functions

Temperature, pressure and vacuum and agitation are very important factors that can affect the tissue processing technique. For example, you can avoid high infiltration temperatures because marked tissue shrinkage and hardening by maintaining embedding waxes 2-3°C above their melting points. On the other hand, high pressure facilitates infiltration of dense specimens with the more viscous embedding media. Finally, tissues agitation during processing ensures an adequate fluid exchange and in automatic tissue processors, continual motion of tissue containers and flow of processing fluids is maintained.

### Tissue Embedding Equipment

This model features fully programmable computer controls that allow automatic system start and stop at any time (weekly). The use of new silicon rubber heating elements achieves rapid even, reliable, energy saving heating. Its temperature is precisely measured by temperature-sensing integrated USA blocks, and is LCD-displayed with icons demonstrating current working status. This tissue-embedding center has five heated areas, including Paraffin Chamber, Paraffin Dispenser, left and right Thermal Storage Compartments, and heating plate (working area); they are individually controlled and work independently without interference from each other. In addition, it has five temperature-control channels and multiple overheating protection mechanisms that provide safe, reliable, and energy-saving protection. It has flexible module configuration options through a design, which separates the cryo Module from embedding Module, enabling easy maintenance. Finally, with this system's cryo plate's temperature is controlled independently and can be used to freeze tissue more conveniently, particularly for small specimens.

**Product Name: YR445 Tissue Embedding Center.**

**Product Categories: Embedding Center.**

### Features:

- ✓ Fully programmable computer control allows automatic system start and stop anytime (weekly).
- ✓ The use of new silicon rubber heating elements achieves rapid even, reliable,

energy saving heating.

- ✓ Temperature is precisely measured by temperature-sensing integrated blocks made in USA, and is LCD-displayed with icons demonstrating current working status.
- ✓ Five heated areas, including Paraffin Chamber, Paraffin Dispenser, left and right Thermal Storage Compartments, and heating plate (working area), are individually controlled and work independently without interference from each other.
- ✓ Five temperature-control channels and multiple overheating protection mechanisms provide safe, reliable, and energy-saving protection.
- ✓ Automatic memory and restoration functions: After startup, all preset temperature data are automatically stored in the system.
- ✓ Flexible module configuration options through a design which separates the Cryo Module from Embedding Module, enabling easy maintenance.
- ✓ Freezing temperature can be adjusted due to the use of a new-type inverter compressor.
- ✓ The temperature of the cryo plate equipped with this system is controlled independently and can be used to freeze tissue more conveniently, particularly for small specimens.
- ✓ Paraffin Chamber with super large capacity enables embedding a large number of specimens at same time.
- ✓ Safe and reliable low-voltage illuminating system with two ON/OFF control options (finger or foot-operated).
- ✓ Heated working plate and forceps wells make tissue embedding more convenient.
- ✓ High-precision clock makes time setting more convenient and accurate.
- ✓ There is an automatic actuation, can make sure the unit will continue working after a power-down.
- ✓ Using the imported solenoid valve to help the Paraffin Dispenser to adjust the flow rate.
- ✓ This unit set the control power socket, it can work with BL and BC and the same time.



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**Tissue Embedding & Cooling System**

**Model YR447**



The space-saving YR447 is a complete paraffin dispensing unit including a 4 liters paraffin container, a heated working area and a cooling spot. The ergonomically elevated heated working area is illuminated with adjustable LED light and allows comfortable processing of specimen. All functions of the unit are controlled by an intuitive control panel including programmable working hours. Two heated trays provide a pre-warming capacity of 80 cassettes and 200 embedding moulds.



**Features:**

- ✓ Fully programmable computer control allows automatic system start and stop anytime (weekly);
- ✓ The use of new silicon rubber heating elements achieves rapid even, reliable, energy saving heating;
- ✓ Temperature is precisely measured by temperature-sensing integrated blocks made in USA, and is LCD-displayed with icons demonstrating current working status;
- ✓ Five heated areas, including Paraffin Chamber, Paraffin Dispenser, left and right Thermal Storage Compartments, and heating plate (working area), are individually controlled and work independently without interference from each other.
- ✓ Five temperature-control channels and multiple overheating protection mechanisms provide safe, reliable, and energy-saving protection; working after a power-down.
- ✓ Automatic memory and restoration functions: After startup, all preset temperature data are automatically stored in the system;
- ✓ Flexible module configuration options through a design which separates the Cryo Module from Embedding Module, enabling easy maintenance;
- ✓ Paraffin Chamber with super large capacity enables embedding a large number of specimens at same time;
- ✓ Safe and reliable low-voltage illuminating system with two ON/OFF control options (finger or foot-operated);
- ✓ Heated working plate and forceps wells make tissue embedding more convenient;
- ✓ High-precision clock makes time setting more convenient and accurate.
- ✓ There is an automatic actuation, can make sure the unit will continue working after a power-down.
- ✓ Using the imported solenoid valve to help the Paraffin Dispenser to adjust the flow rate;
- ✓ This unit set the control power socket, it can work with BL and BC and the same time.

**Technical specifications for the Embedding System:**

- ✓ Paraffin Chamber Capacity: 4liters
- ✓ Temperature Range of Forceps Wells: RT – 85°C
- ✓ Temperature Range of Paraffin Chamber: RT – 85°C
- ✓ Temperature Range of Thermal Storage Compartment: RT – 85°C
- ✓ Temperature Range of Working Plate (hot plate): RT – 85°C
- ✓ Temperature Range of Paraffin Dispenser: RT – 85°C
- ✓ Temperature Range of Thermal Storage Plate: RT – 85°C
- ✓ Temperature Control Precision: ±1%
- ✓ Thermal Storage Compartment Capacity: 4.5 liters
- ✓ Paraffin Flow Control: Paraffin flow control via finger touch plate and optional foot pedal
- ✓ Fully programmable ON/OFF control allows automatic system start and stop anytime weekly
- ✓ Temperature Range of Cryo Module: RT to -20°C
- ✓ Temperature Setting of Cryo Module: the optimal working temperature is approximately -15°C, and the temperature is under delay protection
- ✓ Dimensionsof working plate (YR455): 155×90mm
- ✓ Dimensionsof small cold plate (YR455): 60×50mm
- ✓ Dimensions of Cryo Module( YR440A): 340×322mm
- ✓ Working Voltage: AC 220V±10% 50Hz (standard model); AC110V±10% 60Hz
- ✓ Power: 1000W(YR455), 300W (YR440A)
- ✓ Dimensions:
  - ✓ 670×590×445 mm (W×D×H) (YR455)
  - ✓ 685×380×430 mm (W×D×H) (YR440A)
- ✓ Net weight:
  - ✓ 33kg (YR455)
  - ✓ 26kg (YR440A)



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## Tissue Embedding & Cooling System

**Model YR448**

### Features:

- ✓ OLED screen: energy-saving, crisp display without the necessity of background light, clear vision without blind spots from any angle;
- ✓ Flexible heating mechanism and PID technology are used to achieve fast heating and precise temperature control;
- ✓ Seven working areas, including Paraffin Chamber, Paraffin Dispenser, left and right Thermal Storage Compartments, heating plate (working plate), small Cooling Plate, and Cryo Module are individually controlled and work independently without interference by each other;
- ✓ Adjustable gravity-feed paraffin dispenser using latest heating and DC low-voltage control mechanism: dispenser is heated with wrapping-type heating film to achieve smooth, safe and reliable heating;
- ✓ Trimming plates at both sides for convenient tissue block trimming;
- ✓ A big magnifying glass can be adjusted at any direction and angle, suitable for embedding extremely small tissue specimens;
- ✓ Manual and automated operation modes: under a manual mode, the system can be started and stopped any time; under an automated mode, ON/OFF can be set at any weekday, hour and minute; all settings are automatically stored once the program starts to run;
- ✓ All buttons are equipped with luminotron to clearly show the working status;
- ✓ Low-voltage, safe and bright LED lamp: both angle and brightness are adjustable, enabling easy and convenient specimen observation;
- ✓ Flexible module configuration options (left-to-right or right-to-left) through a design separating Cryo Module from Embedding Module; Cryo Module can be automatically started or stopped along with Embedding Module by optionally using a power serial port;
- ✓ Freezing temperature can be adjusted due to the use of a new-type inverter compressor;
- ✓ There is an automatic actuation, can make sure the unit will continue working after a power-down.

### Technical specifications for the Embedding System:

- ✓ Paraffin Chamber Capacity: ≥6 liters
- ✓ Temperature Ranges: RT - 85°C:
- ✓ Temperature Control Precision: ±1%
- ✓ Paraffin Flow Control: Paraffin flow control via finger touch plate and optional foot pedal
- ✓ Fully programmable ON/OFF control allows automatic system start and

- stop anytime weekly
- ✓ Dimensions of Paraffin Chamber: 495×132×95mm(W x D x H)
- ✓ Dimensions of Thermal Chamber (each of two) : 240×160×50 mm(W x D x H)
- ✓ Working area of Embedding Module: 540mm×93mm
- ✓ Dimensions of small cold plate: 60×50mm
- ✓ Working Voltage: AC 220V±10% 50Hz (standard model); AC110V±10% 60Hz
- ✓ Power: 1000W
- ✓ Dimensions: 675×575×395mm(W x D x H)
- ✓ Net weight: 39kg

### Technical specifications for the Cooling System:

- ✓ Temperature Ranges of Cryo Module: 0 to -20°C
- ✓ Temperature setting of Cryo Module: the optimal working temperature is approximately -10°C, and the temperature is under delay protection
- ✓ Dimensions of Cryo Module: 315×380 mm
- ✓ Working Voltage: AC 220V±10% 50Hz (standard model); AC110V±10% 60Hz
- ✓ Power: 300W
- ✓ Dimensions: 710×350×390mm (W×D×H)
- ✓ Net weight: 25kg



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## KALSTEIN® Cooling Plates

Model Series YR440



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## Cooling Plate

### Model YR440

#### Overview

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.

**Product Name: YR440 Cooling Plate.**

#### Product Categories Cooling Plates

#### Product description

YR440 Cryo-plate adopted with new-type inverter compressor, which makes tissue paraffin cooled quickly; Teflon plating ensure easy cleaning; Cooling temperature can be adjusted freely, temperature is settled properly to avoid tissue wax from not cooling enough or frost splitting?YR440 cryo-plate can be use separately.

#### Technical specifications

- ✓ Area of cryo-plate: 320x300mm.
- ✓ Voltage: AC220V 50Hz AC110V 60Hz.
- ✓ Power: 300W.
- ✓ Dimension: 590x345x385 mm (WxDxH), (YR440).
- ✓ Weight: 27kg.



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## Cooling Plate Model YR440A

### Overview

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.

**Product Name: YR440A Cooling Plate.**  
**Product Categories Cooling Plates**

### Product description

YR440A Cryo-plate adopted with new-type inverter compressor, which makes tissue paraffin cooled quickly, Teflon plating ensure easy cleaning, cooling temperature can be adjusted freely, temperature is settled properly to avoid tissue wax from not cooling enough or frost splitting YR446 cryo-plate can be use separately.

### Technical specifications:

- ✓ Temperature Setting of Cryo Module: the optimal working temperature is approximately -15°C, and the temperature is under delay protection
- ✓ Setting temperature: RT~-20°C
- ✓ Protection requirement of time delay
- ✓ Area of cryo-plate: 340x322mm
- ✓ Voltage: AC220V 50Hz  
AC110V 60Hz
- ✓ Power: 300W
- ✓ Dimension: 685x380x430 mm (WxDxH)
- ✓ Weight: 26kg



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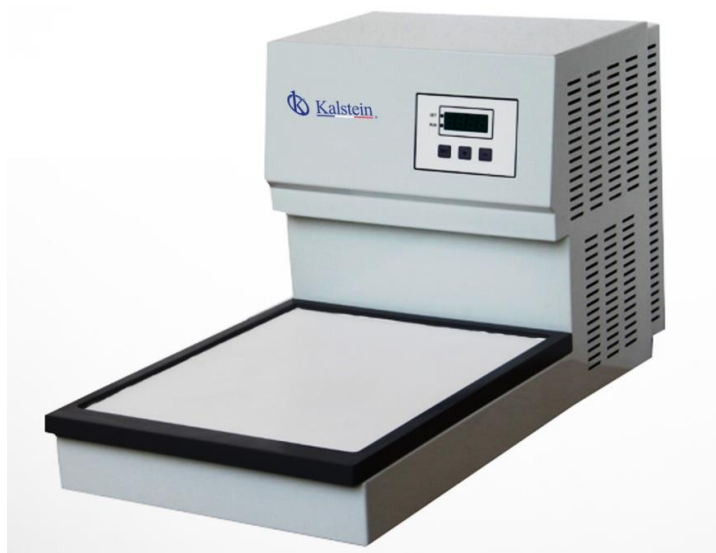
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## Cooling Plate

### Model YR440B

#### Overview

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.

**Product Name: YR440B Cooling Plate.**

**Product Categories Cooling Plates**

#### Product description

YR440B Cryo-plate adopted with new-type inverter compressor, which makes tissue paraffin cooled quickly, Teflon plating ensure easy cleaning, cooling temperature can be adjusted freely, temperature is settled properly to avoid tissue wax from not cooling enough or frost splitting YR446 cryo-plate can be use separately.

#### Technical specifications:

- ✓ Temperature Ranges of Cryo Module: 0 to -20°C
- ✓ Temperature setting of Cryo Module: the optimal working temperature is approximately -10°C, and the temperature is under delay protection
- ✓ Dimensions of Cryo Module: 315×380 mm
- ✓ Working Voltage: AC 220V±10% 50Hz (standard model); AC110V±10% 60Hz
- ✓ Power: 300W
- ✓ Dimensions: 710×350×390mm (W×D×H)
- ✓ Net weight: 25kg



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**KALSTEIN® Tissue HotPlate**

*Model Series YR453 and YR455*



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## Tissue Hot Plates

### Model YR453

#### Technical Characteristics:

- ✓ Temperature Range: continuously adjusted in a range of RT to 90°C and maintained automatically;
- ✓ Temperature Control Precision: ±1°C;
- ✓ Suitable Environmental Temperature: 0 - 40°C;
- ✓ Working Voltage: AC 220V±10% 50Hz (standard model); AC110V±10% 60Hz
- ✓ Power: 200W
- ✓ Dimensions: 360×350×120mm (W×D×H)
- ✓ Net weight: 5kg

As you may know, there are several important and fundamental steps in histology labs, in order to achieve the right results. Being aware of every single detail is one of the qualities a laboratory worker must have. The Slide Dryer comes in handy in the preparation of microscope slides at the specimen mounting stage. Histology laboratories require high-end devices so that the performance is up to your needs. This medical field needs both experienced personnel and top quality devices.

The mounting stage happens in order to preserve and support a stained section for light microscopy. The sample is mounted on a clear glass slide and it is covered with a thin glass coverslip. To accomplish the coverslip and slide's adherence you need to use a mounting medium. This slide dryer is a helpful device. Before the staining process, you must dry the slides for at least 1 hour. Experts recommend storing them overnight in a slide box at 45 degrees Celsius in an oven. After that, they may be stored at room temperature.

Kalstein products is giving you the opportunity to have a great quality device in order to improve your laboratory's efficiency. We believe that you can accomplish that by acquiring the right devices, such as this slide dryer oven, being this a very important and practical device; you must have when it comes to Microtomy processes such as tissue mounting and sectioning.

#### Slide dryer oven

This model offers great advantages such as improving your workflow by

providing you with a high quality performance in your lab's workspace. We know that in every histology lab the sectioning process is a very important one. That is why you must have this high-end device. The comfort this slide dryer gives you when it comes to the mounting process is like no other one.

This model YR453 features a quick heating, long lifespan, and energy-saving performance due to the use of a new-type heating element. Another great feature about this slide dryer oven is that both actual and preset temperatures are displayed. In addition, this model has an automatic memory and restoration functions: After startup, all preset temperature data are automatically stored in the system. Finally, it has a special black surface material characterized by its strong resistance to abrasion and corrosion.

**Product Name:** YR453 Slide Dryer (Oven).

**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 Hot Plates

### Model YR455

#### 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

#### Technical Specifications:

- ✓ Temperature Range: continuously adjusted in a range of RT to 90°C and maintained automatically;
- ✓ Temperature Control Precision:  $\pm 1^\circ\text{C}$ ;
- ✓ Suitable Environmental Temperature: 0 - 40°C;
- ✓ Working Voltage: AC 220V $\pm 10\%$  50Hz (standard model); AC110V $\pm 10\%$  60Hz
- ✓ Power: 200W
- ✓ Dimensions: 360 $\times$ 350 $\times$ 135mm (W $\times$ D $\times$ H)
- ✓ Net weight: 6kg



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**KALSTEIN® Tissue Water Bath**

*Model Series YR449 to YR457*



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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: ±1°C;
- ✓ Dimensions of Water Bath Dish: 240×180×50mm(W×D×H)
- ✓ Working Voltage: AC 220V±10% 50Hz (standard model) AC 110V±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 ~ -20°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: 350x220x45mm(WxDxH)
- ✓ Dimensions of Drying Station: 330mmx90mm
- ✓ Working Voltage: AC220V $\pm 10\%$  50Hz (standard model); AC110V $\pm 10\%$  60Hz
- ✓ Power: 500W
- ✓ Dimensions: 515x420x160mm (WxDxH)
- ✓ 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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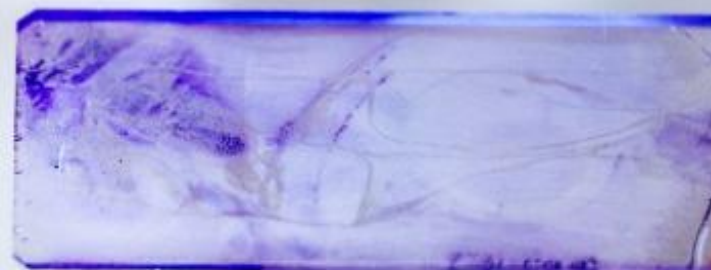
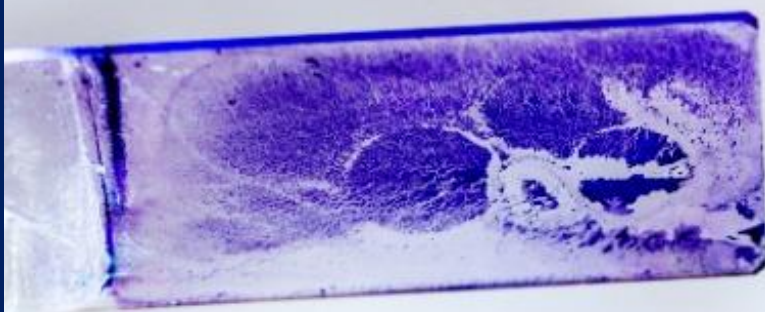
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## KALSTEIN® Paraffin Dispensers

*Model Series YR458 to YR459*



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**Paraffin Wax**  
**Kalstein's Paraffin Wax**

**Technical Characteristics:**

- ✓ Product name: Paraffin wax
- ✓ Melting Point:58-60
- ✓ Oil Content (%): 0.5-0.8
- ✓ Application: candles \rubber industry\explosives industry
- ✓ Needle Penetration(GB/T 4985,100g, mm/10 at 25°C):16-18
- ✓ Kin. Viscosity(GB/T265, 100°C): 4.4
- ✓ Odor(SH/T0414):<1
- ✓ Water-soluble Acid or Alkali(SH/0407): Nil
- ✓ Packing details: 10 KG /Bags

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## Paraffin Trimmer

### Model YR458

The model YR458 Block Trimmer is used to remove excess wax from the outside of a tissue cassette and to clear the edge of the cassette of excess wax after paraffin embedding.

This device features a ridged heating surface where the temperature can be adjusted in a range from ambient to 90°C. By sliding the outside of the block across the heated surface, excess wax on the outside of tissue cassette will melt and flow away from the grooves and the hole at the lowest point flows into a waste tray.

This block trimmer can quickly remove paraffin in order to properly seat the block in the quick-release clamp or microtome vise to achieve the best section quality.

This compact and well-designed device can achieve easy and prompt block trimming with precise temperature control by micro-computer chips and without messy wax sticking to the Teflon-coated surface.

#### Features:

- ✓ Full computer automated control
- ✓ Utilizes new type of heating elements that enable fast heating, energy efficiency and reliability
- ✓ Temperature sensors are made in USA, precise and reliable
- ✓ Automatically saves the latest operational settings
- ✓ Memory and automatic restoration function: the present temperature can be automatically saved after device operation
- ✓ LED displays the heating status



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## Paraffin Dispenser

### Model YR459

#### Major Technical Specifications

- ✓ Temperature Range: Continuously adjustable within 0 - 100°C.
- ✓ Temperature control precision: ±1°C.
- ✓ Capacity: 10000 ml.
- ✓ Working Voltage: AC 220V±10% 50Hz (standard model); AC110V±10% 60Hz.
- ✓ Power: 1200W.
- ✓ Dimensions: 355×410×540mm (W×D×H).
- ✓ Net weight: 16kg.

Any histology lab must have paraffin wax in order to accomplish the sectioning process so that the lab operator is able to see the samples through a microscope. It is common to have a paraffin dispenser in this type of laboratory, due to the importance of this consumable. Tissue processing is one of the most delicate techniques inside any kind of laboratory. You need to be aware of many details and the process must be very precise.

Paraffin wax is useful to impregnate tissue prior to sectioning thin samples of tissue. The process begins when the water is removed from tissue through ascending strengths of alcohol and the tissue is cleared in an organic solvent such as xylene. After this, the tissue is placed in paraffin wax for a number of hours and then set in a mold with wax to cool and solidify. The final process is when you cut the sections on a microtome. The paraffin trimmer removes the excess paraffin from embedding cassettes safely and with ease by sliding it across the heated surface. The melted paraffin drains into the removable catch basin below without making a mess of paraffin shavings.

#### Paraffin dispenser uses

This device is a very common tool inside a histology lab because it melts and dispenses the paraffin. The use of this paraffin dispenser is for research, instruction and experiments in universities or technical secondary schools. About this device's safety, we recommend that when is on; keep the surrounding area clear while you are operating it. You should also keep in mind that you cannot use any flammable and explosive materials, strong chemical materials nor any toxic or radioactive materials.

#### Paraffin wax dispenser

This device has a full computer automated control and intelligent digital temperature control. It also utilizes a new type of heating elements that enable fast energy efficient and a reliable heating. About the temperature, its sensors are made in USA and they are precise and reliable. In addition, this paraffin dispenser automatically saves the latest operation settings. It also has a memory and automatic restoration function enables the preset temperature to be automatically saved after device operation. Moreover, this model has a LED screen that displays the heating status. Its temperature range is continuously adjustable within 0 - 100°C. It has a temperature control precision of ±1°C. In addition, it has a 10000 ml capacity with a working voltage of AC 220V±10% 50Hz (standard model); AC110V±10% 60Hz and a 1200 W power. Finally, its overall dimensions are 355 mm × 410 mm × 540 mm (W×D×H) and its net weight is 16 Kg.

**Product Name: YR459 Paraffin Dispenser.**

**Product Categories: Wax Processing.**

#### Features

- ✓ Utilizes full computer automated control and intelligent digital temperature control.
- ✓ Utilizes new type of heating elements that enable fast, energy efficient and reliable heating.
- ✓ Temperature sensors are made in USA, precise and reliable.
- ✓ Automatically saves the latest operation settings.
- ✓ Memory and automatic restoration function enables the preset temperature to be automatically saved after device operation.
- ✓ LED displays the heating status.



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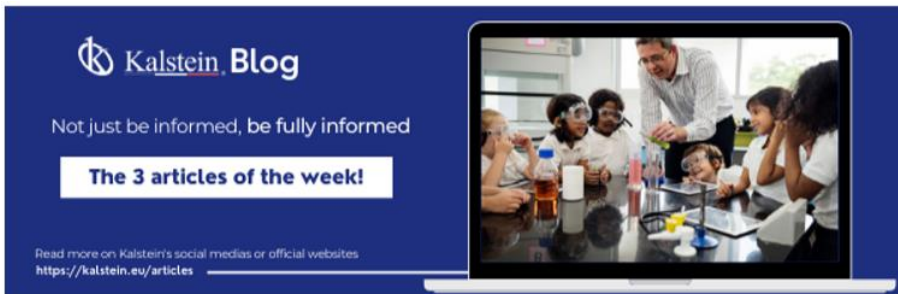
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