



PATHOLOGICAL ANATOMY

AUTOMATED TISSUE PROCESSORS



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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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CE

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 \pm 10% 50Hz (standard model) AC110V \pm 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 \times 435 \times 415 mm (W \times D \times H)
- ✓ Weight: 50kg



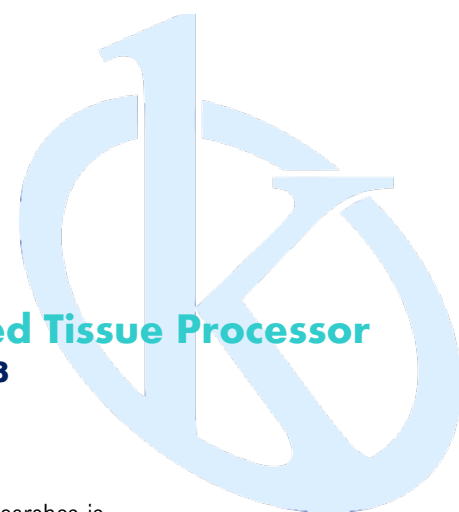
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Automated Tissue Processor Model YR428

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 $\pm 1^{\circ}\text{C}$. 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 $0 \sim 40^{\circ}\text{C}$. This model has a battery backup with more than 6 hours of continual running power. The working Voltage is AC 220V $\pm 10\%$ 50Hz (standard model) and AC110V $\pm 10\%$ 60Hz. The power is 500 W and its dimensions are 1010 \times 420 \times 450 mm (W \times D \times 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 $\pm 10\%$ 50Hz (standard model) AC110V $\pm 10\%$ 60Hz
- ✓ Power: 500 W
- ✓ Dimensions: 1170 \times 465 \times 535mm (W \times D \times 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: $\leq 45^{\circ}\text{C}$
- ✓ Medium is the solvent: $\leq 45^{\circ}\text{C}$
- ✓ Medium is the Wax: $58^{\circ}\text{C}-70^{\circ}\text{C}$
- ✓ Operation pressure: $< 0.1\text{Mpa}$
- ✓ Wax temperature : $58^{\circ}\text{C}-70^{\circ}\text{C}$
- ✓ Wax melt time not more than 3 hours
- ✓ Power input: $< 1500\text{VA}+10\%$
- ✓ Time for immerse: 0 - 99 hours 59 minutes
- ✓ Working Voltage: $220\text{VAC}\pm 10\%, 50/60\text{HZ}$
- ✓ 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: $\pm 10C$;
- ✓ 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 $\pm 10\%$ 50Hz (standard model); AC110V $\pm 10\%$ 60Hz
- ✓ Power: 550W
- ✓ Dimensions: 1370 \times 440 \times 525 mm (W \times D \times 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 \pm 10% 50Hz (standard model); AC110V \pm 10% 60Hz.
- ✓ Power Requirements: 500W.
- ✓ Dimensions: 1180 \times 420 \times 470 mm (W \times D \times 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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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
- ✓ 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 ×470 ×470mm (W×D×H)
- ✓ Net weight: 73 kg

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)



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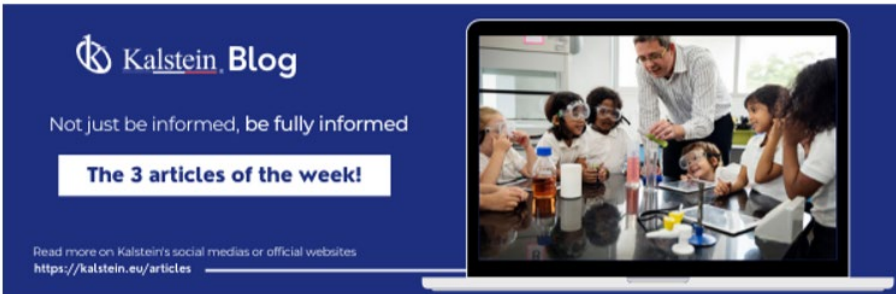
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