

TISSUE PROCESSOR LINEAR CLOSED TYPE



Tissue Processor Linear Closed Type - ToronTP™ 1500

Tissue Processor Linear Closed Type ToronTP™ 1500 is a bench-top linear closed processor designed to automate dehydration, clearing, and paraffin infiltration for biological tissue samples before embedding. ToronTP™ 1500 is built for complete automatic processing through the final paraffin bath stage and supports two tissue baskets running simultaneously with separate programmable control.

This Tissue Processor Linear Closed Type is intended for laboratories that need a compact platform with controlled reagent handling, paraffin processing, and flexible program setup. ToronTP™ 1500 contains closed reagent and paraffin containers to reduce evaporation, microprocessor-based temperature regulation, programmable station timing, and automatic locating and memorizing functions for more stable routine use.

ToronTP™ 1500 is also designed with practical safety and workflow features such as ion purification, dry-heated paraffin chambers, obstruction alarm protection, and partial program modification without rewriting the entire method.

APPLICATIONS

Tissue Processor Linear Closed Type - ToronTP™ 1500 Applications

- Histology and pathology laboratories: this Tissue Processor Linear Closed Type is suitable for routine tissue preparation in pathology and histology workflows where samples must move through dehydration, infiltration, and paraffin processing before embedding and microtomy.
- Medical colleges and teaching laboratories: the system for pathology teaching offices in medical colleges, making it a practical option for training, teaching, and academic tissue-processing workflows.
- Animal and plant research laboratories: that the system is used for biological samples and is applied in animal and plant science research institutes. This makes it suitable for research settings that require repeatable tissue preparation before microscopic evaluation.

- General laboratory and inspection environments: ToronTP™ 1500 can be used for food inspection departments among the application areas, which supports use in broader laboratory environments handling biological tissue samples.



FEATURES

Tissue Processor Linear Closed Type - ToronTP™ 1500 Key Features

- 14-station linear closed design: ToronTP™ 1500 uses 14 stations, including 10 reagent cylinders and 4 paraffin cylinders, in a bench-top linear closed layout. This supports automatic tissue processing while helping reduce evaporation from reagents and paraffin.
- Dual-basket simultaneous processing: the system supports two tissue baskets running at the same time, and both can be programmed separately. This helps laboratories process different sample loads in parallel.
- Automatic locating and memory function: the processor automatically finds and memorizes the starting position for each operation. Each cylinder also uses a separate positioning method to improve positioning accuracy.
- Touchscreen programming and scheduling: operating parameters such as station time, temperature, and dripping time can be set from the touchscreen panel. The unit also supports daily, weekend, and weekly programming.
- Up to 9 stored programs: users can store up to 9 different programs, and each program can be modified partly without rewriting the full method.
- Dry-heated paraffin cylinders: the paraffin cylinders use dry heating, which removes the need for added water. This helps avoid issues related to low water level, corrosion, leakage, and water-related electrical risk.
- Ion purification function: the system includes ion purification to help reduce solvent odors and pollution around the processor.
- Basket shaking for better immersion: the baskets shake 4 times every 10 minutes to improve immersing efficiency during tissue processing.
- Alarm and protection functions: if a cylinder becomes stuck, the unit stops automatically and gives an alarm to help protect the tissue and improve operating safety.
- External USB power connector: the processor includes an external USB power connector for an external power supply, intended to help reduce the risk of tissue dehydration during a long power interruption.

THEORY & METHOD

Theory and Method

Tissue Processor Linear Closed Type automates the movement of tissue baskets through a programmed sequence of reagent and paraffin stations. During the cycle, tissue is dehydrated, infiltrated, and prepared for the final paraffin stage so it can later be embedded and sectioned.

ToronTP™ 1500 uses a 14-station linear closed design with 10 reagent cylinders and 4 paraffin cylinders. Two baskets can run at the same time, and each basket can be programmed separately. This allows the lab to process different loads in parallel while maintaining a closed system to limit evaporation.

The paraffin cylinders use dry heating, so no water is required. The system also includes programmable station time, dripping time, temperature settings, delayed start, and basket shaking to improve immersing efficiency during processing.

TECHNICAL SPECIFICATIONS

Tissue Processor Linear Closed Type - ToronTP™ 1500 Technical Specification

Parameter	ToronTP™ 1500
Product type	Tissue Processor
Processor design	Bench-top linear closed type
Number of cylinders	14
Cylinder configuration	10 reagent cylinders, 4 paraffin cylinders

Parameter	ToronTP™ 1500
Number of tissue baskets	2
Basket operation	Two baskets can run simultaneously with separate programs
Station capacity	1500 mL
Tissue load capacity	More than 300 tissue samples or 120 disposable embedding cassettes
Set temperature range	0°C to 99°C
Set time per cylinder	1 minute to 99 minutes 59 seconds
Stored programs	9 sets
Basket rising and staying time	30 seconds
Basket shaking frequency	4 times per 10 minutes
Power-on delayed setting	99 hours 59 minutes
Dimensions	1400 × 500 × 550 mm
Power	≤ 900 W
Voltage	220 V / 50 Hz or 110 V / 60 Hz



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