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**Tissue-Tek Xpress® x120**  
Rapid Tissue Processor

**Boost turnaround  
time for faster  
diagnosis**



continuous innovation for pathology



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## True rapid continuous tissue processing

The Tissue-Tek Xpress® x120 is a standardized, turnkey solution combining hardware and processing reagents for true rapid, continuous tissue processing beyond the scope of just small biopsies. This innovative technology is the first to deliver rapid, standardized processing over a full range of tissue types, allowing slides to make their way to the pathologist faster than ever.

- Robotic, 4-retort engineering design
- Innovative, low-wattage microwave technology
- High-quality, rapid tissue processing of most tissue in 1 hour
- Highly efficient, error-free reagent platform that is both formalin- and xylene-free

## Streamline your tissue processing workflow with innovative automation



### Rapid processing enabling same-day diagnosis

- The Standard Program provides high-quality tissue processing in approximately 1 hour for biopsies and tissues 2 mm or less in thickness
- The Extended Program allows for the rapid processing of customary tissue thicknesses of 3 mm in an amazing 2 hours
- Rapid processing saves time typically wasted on holding cassettes to batch for traditional overnight processing, significantly improving turnaround time and enabling same-day diagnosis

### Continuous loading for unrivaled workflow productivity

- Precision robotics and 4 processing retorts enable up to 40 cassettes to be loaded every 20 minutes
- Individual reagent retorts prevent the need for a cleaning cycle, eliminating instrument downtime between runs and increasing daily throughput
- The continuous operation provides the freedom to load cassettes when they are ready without compromising workflow, even for STAT runs as small as a single cassette
- The level distribution of the daily processing workload eliminates bottlenecks and makes staffing more manageable



### Technology engineered for efficiency and tissue safety

- Innovative, low-wattage microwave technology assists in safe, rapid and consistent tissue processing
- Specially programmed robotics help reduce reagent carryover, enhancing reagent life and tissue processing quality
- Distinctively designed, circular retorts that create a “whispering chamber effect” and an exclusive agitation system promote a safe and effective processing environment for tissues
- Two standardized programs and a simple graphical user interface eliminate opportunities for protocol selection errors
- Impressive self-monitoring and an intuitive system design focused on eliminating errors has led to the lowest number of FDA recordable events when compared to all tissue processors

### Reagents uniquely formulated for safe, efficient and rapid tissue processing

- Less than 16 liters of onboard reagents are capable of processing up to 1,500 cassettes, which reduces in-lab inventory and saves money by cutting disposal quantities by up to 80%
- Ready-to-use reagents eliminate bottle placement and filling errors and save valuable technician time
- Conveniently designed, 1-gallon reagent bottles and premeasured paraffin bags provide stress-free, safe handling and allows a complete reagent change to be performed in less than 15 minutes
- Tissue-Tek Xpress® reagents are both formalin- and xylene-free, reducing the handling and exposure to hazardous reagents in the laboratory
- The versatile reagent formulation is compatible with all tissue staining methods including IHC, and its ability to provide exceptional morphology and nuclear detail is time tested



### Maximize throughput and tissue orientation integrity from grossing to microtomy with SMART Automation

- Create an integrated production system by combining the Tissue-Tek Xpress® x120 with the Tissue-Tek AutoTEC® a120 Automated Embedding System for a rapid, continuous workflow from grossing to microtomy
- Realize true rapid, continuous and standardized throughput of up to 120 Tissue-Tek® Paraform® Sectionable Cassettes per hour for both instruments, reducing the time from grossing to microtomy to an average of only 3.5 hours<sup>1</sup>
- Keep cassettes organized with chemical resistant cassette magazines that are compatible with both instruments for ease of use
- Incorporate the significant tissue safety and integrity advantages of the Tissue-Tek® Paraform® Cassettes and optional additional benefits of the Tissue-Tek® Paraform® Tissue Orientation Gels to maintain orientation from grossing to microtomy



*“With the Xpress x120 and AutoTEC a120, we were able to convert our night shifts to more family friendly day shifts and reduce turnaround time by nearly 10 hours. Our staff is happier, more productive, and our clients and their patients get results sooner.”*

**Mary deBram-Hart, BS, HT (ASCP)**

Laboratory Manager Cockerell Dermatopathology

1. Continuous Specimen Flow Changes Night Shifts to Day Shifts While Reducing Turn-Around-Time (TAT) - Poster NSH 2015

# Specifications

<b>Product name</b>	Tissue-Tek Xpress® x120 Rapid Tissue Processor	<b>Weight</b>	1,023 lbs (465 kg)
<b>Product code</b>	7720	<b>Processing temperature</b>	Processing stations #1 and #2: 51°C ± 1°C Processing stations #3 and #4: 65°C ± 2°C
<b>Applications</b>	Continuous rapid processing of human or animal tissue for routine and research histology	<b>Workload statistics</b>	Daily, weekly, monthly (user-defined)
<b>Processing programs</b>	Standard 1-hour protocol (tissues up to 2 mm thick) Extended 2-hour protocol (tissues between 2-3 mm thick)	<b>Start-up options</b>	Manual cold start (approximately 4 hours until ready) Auto start mode with preset system ready time
<b>Throughput</b>	Up to 120 cassettes per hour Standard: Up to 40 cassettes every 20 minutes Extended: Up to 40 cassettes every 40 minutes	<b>Password protection</b>	Administrators: 4 Operators: 20
<b>Rapid processing technology</b>	Low wattage microwave assistance (regulated to < 200 watts)	<b>Fume control</b>	Disposable carbon cartridge filter Optional external ventilation
<b>Retorts</b>	Loading station: 1 Processing stations: 4 Unloading stations: 2	<b>User interface display</b>	Color LCD touchscreen, 10.4", 800 x 600 pixels, integrated
<b>Reagent volume</b>	Loading station: 1.8 L Liquid processing reagent: 2 x 3.8 L Infiltration medium reagent: 2 x 3.0 L	<b>Data interface options</b>	USB port (2) External alarm output UPS signal output LAN
<b>Reagents used</b>	Proprietary liquid processing reagent in two ready-to-use bottle Proprietary infiltration medium in two pre-measured bags	<b>Diagnostic functions</b>	Internal self-diagnostics with log of error messages and codes Remote monitoring with Tissue-Tek® iSupport™
<b>Reagent characteristics</b>	Formalin-free and xylene-free	<b>Certifications</b>	UL 61010-1: 2nd Ed.: 2004, CAN/CSA-C22.2 No. 61010-1: 2nd Ed.: 2004, CAN/CSA-C22.2 No. 61010-2-010:04, IEC61010-2-010: 2003, CAN/CSA-C22.2 No. 61010-2-081:04, IEC61010-2-081: 2001, CAN/CSA-C22.2 No. 61010-2-101:04, IEC61010-2-101: 2002 FDA Registration (Regulation No. 864.3875)
<b>Reagent life</b>	Up to 1,500 cassettes per reagent kit (depends on tissue type/size and continuous days of operation)	<b>Regulatory status</b>	IVD, FDA Class I
<b>Rated voltage and current</b>	Single phase, 200VAC ± 10%, 50/60 Hz, 15A (NEMA L6-20 dedicated receptacle)		
<b>Dimensions</b>	67 (W) x 28 (D) x 64 (H) inches 170 (W) x 71 (D) x 162 (H) cm		

## Accessories

Product code	Product name and quantity
7103	Tissue-Tek Xpress® 40-Cassette Basket with Handle and Lid
7093	Tissue-Tek AutoTEC® a120 20-Cassette Magazine; 6/case
7007	Tissue-Tek AutoTEC® Magazine Handle; 6/case
4800	Tissue-Tek® Accu-Edge® Grossing Board
4803	Tissue-Tek® Accu-Edge® Grossing Fork, 1.5 mm
4804	Tissue-Tek® Accu-Edge® Grossing Fork, 2.0 mm
4807	Tissue-Tek® Accu-Edge® Grossing Fork, 2.5 mm
4785	Tissue-Tek® Accu-Edge® Trimming Blade, Short (5 inches); 50/case
4786	Tissue-Tek® Accu-Edge® Trimming Handle, Short Straight; 1 unit
4789	Tissue-Tek® Accu-Edge® Trimming Blade, Long (10 inches); 50/case
4790	Tissue-Tek® Accu-Edge® Trimming Handle, Long Straight; 1 unit
4791	Tissue-Tek® Accu-Edge® Dissecting Scalpel Handle; 1 unit
4792	Tissue-Tek® Accu-Edge® Dissecting Scalpel Blades #61, Curved Tip; 20/case
4793	Tissue-Tek® Accu-Edge® Dissecting Scalpel Blades #62, Pointed Tip; 20/case

## Consumables

Product code	Product name and quantity
7730	Tissue-Tek Xpress® x120 Processing Reagent Kit
7715	Tissue-Tek Xpress® Pre-Processing Solution; 4 x 3.8 L/case
7117	Tissue-Tek Xpress® Pre-Processing Fixative; 4 x 3.8 L/case
7120	Tissue-Tek Xpress® Molecular Fixative; 4 x 3.8 L/case
7106	Tissue-Tek Xpress® Tray Liner; 100/case
7107	Tissue-Tek Xpress® Carbon Filter; 2/case



## A long tradition of excellence

**Known for best-in-class automation and reliability Sakura Finetek remains a privately-held company in business for over 160 years. Sakura Finetek has achieved its success and solidified its reputation by providing timely, ingenious solutions to the real challenges laboratories face on a day-to-day basis.**

Our rich history has given us a thorough understanding of technology, quality, reliability, value for money and our customers' requirements. We use this knowledge to passionately develop products that anticipate developments in both technology and market needs.

Sakura Finetek USA, Inc. (SFA) is based in Torrance, California. Functions covered at this facility include sales and marketing, service and technical support, R&D, and manufacturing. SFA is an ISO 13485 certified manufacturer and supplier. As one of the two global manufacturing and R&D sites, SFA develops instruments and reagents into system solutions and secures our innovation with a steady stream of patents.

In addition to supporting the U.S. marketplace, SFA is also responsible for Canada, Mexico, Central and South

America and serves these markets with a network of local distributors.

With the worldwide headquarters in Japan and regional offices in Japan, The Netherlands and the U.S.A., the global strategy of worldwide representation has been fulfilled to guarantee our customers the best service and support.

Our organization is developing, professionalizing and growing continuously, and thus maintaining its position as a trustworthy and valuable partner in histopathology.

Please visit our website [www.sakuraus.com](http://www.sakuraus.com)

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