

Histology Innovation for a NEW Generation

Tissue Processing

RTP™/RTPH™-360 Rapid Tissue Processors



**Proven Technology. Superior Reliability.
Quality Assurance. Innovative Design.**

The RTP/RTPH™-360 Tissue Processor series ensures all your specimens receive optimal processing in order to deliver the best possible care. They enable your lab to deliver increased productivity, advanced specimen safety and highly accurate results.



Highly Efficient Tissue Processing Delivers Enhanced Throughput and Accuracy

There's a patient's life story behind every tissue specimen your lab processes, and it's your job to ensure every life story receives the best possible care. The **RTP™** tissue processors utilize advanced technologies that are designed for the needs of today's lab - where increased reliability, efficiency, throughput, accuracy and safety are all critical factors for delivering the highest quality care to your patients.

✓ Quality Assurance For Every Processed Specimen

The **RTP™** offers 5 different levels of unique agitation ("Bubbling") that maximizes fluid/tissue exchange ratios. This unique technology safely processes tissue while accelerating processing times. Contamination of reagents, paraffin, fluids and charcoal filters are tabulated for processing quality. Specimen retort is continually monitored for proper fill levels, and processing cycles are tracked to optimize reagent availability.

✓ Enclosed Reagent/Pneumatic System Eliminates Noxious Vapors

Protect lab personnel from exposure to hazardous fumes with the **RTP™**'s unique enclosed pneumatic system. Vapor and obnoxious fumes are trapped within the closed-looped system eliminating xylene and alcohol evaporation. A built-in exhaust fan surrounding the retort lid helps capture any leftover fumes that remain after processing. The enclosed system also extends the life of the charcoal filters by diverting any condensed fluids before filtering fumes.

✓ Today's Fastest Non-Microwave Tissue Processor Delivers Throughput & Accuracy

Capable of processing up to 360 small biopsies safely in 40 minutes. This result can be achieved using traditional reagents or with most of the Xylene and Ethyl alcohol substitutes available on the market. This "state-of-the-art" feature is safe and highly reliable. The **RTP™** series is the safest and most cost effective answer for the **FASTEST BIOPSY PROCESSING** and overnight tissue processing needed in every histology laboratory.

✓ Efficient Reagent Management Saves Time and Money

The **RTP™** series is designed for busy labs and offers intuitive software for easy user interaction and routine maintenance. Software such as *Reagent Management System (RMS)*, *Wax Purification Cycle* and *Automatic Reagent Rotation* is continually monitored to ensure reagents are at optimum processing conditions and levels. It also provides lab techs an easy and efficient way to check the instrument for scheduled preventative maintenance.

User Defined Reagent Grouping: The user defines where reagents are positioned and grouped (formalin/ alcohols/ waxes). When *RMS* is activated, it automatically rotates reagents based on its **group, position** and **processing quality condition** thus decreasing human error and manual interactions.

Use less reagents: Reagent carryover is no longer a problem.

Prolong paraffin life: Automatic paraffin cleaning requires no operator attention and reduces paraffin consumption by a third or more.

Graphical
Easy & Intuitive HMI
(Human Machine Interface)



USB Port for Data
Backup and Automatic
Software Upgrades

2 Ports for
Easy & Automatic Reagent
Remote Fill & Drain

1 Port for
External Paraffin Wax Drain

5.0 liters Reagent Tanks

RTPH™-360
Rapid Tissue Processor
with Rapid Heat Exchange
(located behind unit)

RTP Sample Processing Chamber

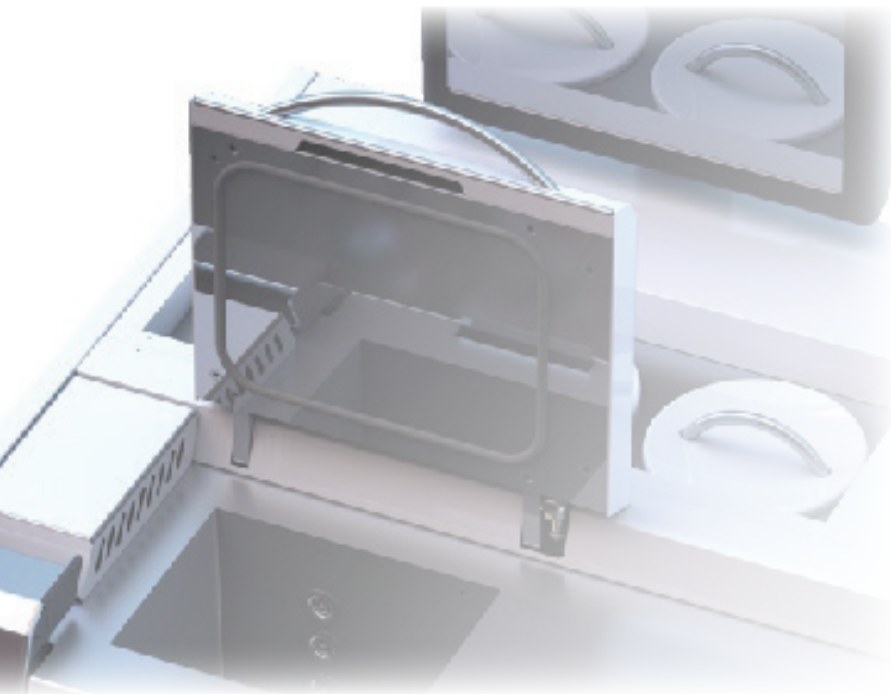
- Made of high-quality Stainless Steel
- Easy-to-clean surface treatment.
- User-Friendly lid lock mechanism
- Gas piston keeps lid open
- OPEN/CLOSE Lid Sensor



✓ Pre-filled Bottles Saves Time on Manually Refilling

Reagents

Bottles can be purchased pre-filled, or lab personnel can easily refill bottles from bulk reagent supply. Ask your local dealer for availability in your country.



Innovative Single Rotary Valve Design Maximizes Reliability in Quality Processed Tissue

The RTP™ is the only tissue processor to direct the flow of all reagents, waxes and cleaning solutions to and from the processing chamber through a single rotary valve within a heated chamber. This simple yet powerful design increases reliability of providing quality processed tissue due to minimum reagent carryover while reducing overall service costs.

✓ Unique Processing Chamber Safely Accelerates Processing

Reagents are safely heated when traveling to the processing chamber by a patented device called RHE™ (*Rapid Heat Exchange*). The RHE™ prevents any risk of reagents overheating and dramatically reduces the processing time because there is no delay caused by having to wait for reagents to warm during the processing phase. Throughout the processing stages, every sample is kept evenly warmed at the desired temperature, which decreases any possibility of distortion.

✓ Remote Solvent Drain & Fill System Saves Time

This unique and useful function permits the user to empty and refill one of the reagent bottles without removing it from its slots. The function is completely automated so it allows the user to walk away during the execution.

✓ Unique Reagent Bottle Design Provides Aid for Easy Cleaning & Refills

Add or change reagents, paraffin and cleaning fluids quickly and easily with this innovative bottle design. Bottles can be fitted with a quick-release coupler for added ease when attaching or detaching from the RTP. **NOTE:** Bottles are compatible with TBS' Paraffin Dispenser for easy refilling. Bottles can be purchased pre-filled, or lab personnel can easily refill bottles from bulk reagent supply. Ask your local dealer for availability in your country.

✓ UPS Battery Back-Up System Protects Tissue During Power Outages

An optional UPS battery back-up system is available on the RTP™ series. Should your facility have a power outage, the UPS battery back-up provides a safety net to allow the tissue processor to move the tissue to a safe point in the processing stage so it's not over-processed until power is able to be restored.

RTP™-360 Rapid Tissue Processor



Product Features

- ✓ Overnight Processing
- ✓ Fast Processing (microwave free)
- ✓ Reagent Management System
- ✓ Remote Fill & Drain
- ✓ 360 Sample Capacity
- ✓ 18" Touch-Screen Operator Control
- ✓ 3 Reagent Level Sensors
- ✓ Reagent Partial Load Capacity
- ✓ Wax Cleaning Cycle
- ✓ Data Backup on USB port
- ✓ 18 Processing Programs
- ✓ Reverse Processing Special Program /Clean Program
- ✓ Process End Time Management
- ✓ Fumes Charcoal Filter
- ✓ Anti-Blackout & Power Failure Devices
- ✓ Remote Alarm
- ✓ Remote Monitoring & Servicing
- ✓ Factory Pre-Filled Reagent Bottles



User-Interface Process Editing

Simple. Clear. Easy. Intuitive.

18 Processing Programs

Drag & Copy Function

Copy Process Function

Controlled Field Value

Process Start & Run

Easy End of Process Setting.

Graphic Process Controls

9 Multi-Languages

Reagent Level Sensors

Partial Reagent Load

Samples Baskets Check

Reagent Quality Check



Remote Fill & Drain

Change Reagents Without Removing Tanks.

Graphic Remote Fill & Drain Controls (RFD)

RFD is connected with Reagent Management System

No Reagent Carryover

Fast & Fully Automated

2 Ports for Reagents
1 Port for Paraffin Wax



At-A-Glance Instrument Check

Operational Parameters Are Always Visible.

Most Used Processing Programs are kept on Main Menu

Service Routines like RMS and Wax Cleaning Cycles are monitored to assist the user on keeping the reagents at the best possible levels of cleaning & quality

Maintenance Monitoring assist service techs for easy & efficient servicing

Product Specifications:

Dimensions: (WxHxD)(in)(mm)	(28.5x46.25x29.5) (724x1175x749)
Height with monitor:	60(in) 1524(mm)
RTPH-360 Weight: 496(lbs) 225(kg) Crated: 626(lbs) 285(kg) RTP-360 Weight: 437(lbs) 196(kg) Crated: 562 (lbs) 255(kg)	
Sample Processing Chambers	1
Sample Baskets	3
Sample Processing Capacity	360
Reagent Tanks - 5 Liter Capacity	12
Paraffin Containers - 5 Liters Capacity	3
RHE for Fast Processing	1
SPC Level Sensors	3
Reagent Partial Load Capacity	Yes
Charcoal Filters	1
Remote Fill & Drain Ports	2
Wax Dumping Port	1

Monitor	18" LCD Color Touch-Screen
Processing Programs	18
Purge Reagents	2
Reagents Temperature Range (°C)	20-65
Paraffin Temperature Range (°C)	55-65
Process Start Delay Time	Up to 2 weeks
RMS - Reagent Management System	Yes
RFD - Remote Fill & Drain	Yes
EWD - External Wax Dumping	Yes
USB Ports	5
Printer Ports	1
Remote Alarm Port	1
Network Ports (Ethernet)	2
Certifications	CE/IVD/UL
Rating (50/60 Hz)	100-240V 50-60Hz
Available Software Languages	Chinese, English, German, Italian, French, Spanish, Polish, Czech, Portuguese

How To Order:

Catalog #	Description
RTPH-360	Rapid Tissue Processor with RHE™ (Rapid Heat Exchange). 18" Color touch screen controller, 18 processing programs; Including: time, day, date, name and programmable reagent management system.
RTP-360	Rapid Tissue Processor. 18" Color touch screen controller, 18 processing programs; Including: time, day, date, name and programmable reagent management system.

American MasterTech

scientific laboratory supplies

1330 Thurman Street
Lodi, CA 95240

Phone: 800.860.4073
Fax: 209.368.4136

www.americanmastertech.com