Shandon Cryotome® Cryostat Series



Shandon Cryotome FSE Shandon Cryotome FE Shandon Cryotome SME



Shandon Cryotome® FE and FSE

Designed with your needs in mind.



The 5th generation of Shandon
Cryotomes are precision
engineered, ergonomic instruments
designed to meet the needs of all
clinical settings, producing high
quality frozen sections with less
fatigue. The spacious chamber,
colored cryocassettes, and
superior knife holder design assist
the user in producing excellent
frozen sections that are easily
obtained and quickly identifiable.

- Adapts to multiple users and samples.
- Rapid temperature response reduces turn-around time.
- Built-in operator comfort.
- Reliability and safety provide added peace-ofmind.

Ease of Use: Adapts to User Expertise

- Microtome outside the cryochamber makes it easier and quicker to clean.
- Simple, intuitive, multi-lingual, touch-screen display for easy instrument operation.
- Complete temperature controls on the main touch-screen display.
- Color-coded levers and graphics make knifeholder adjustments obvious.
- Angle of clamp plate enables easy specimen pick-up.
- Easy to use anti-roll plate (glass or plastic).

Peace of Mind

- Dual compressor system ensures specimen integrity by keeping specimens frozen if the cryobar fails.
- Remote Alarm alerts user in case of system failure.
- **Multi-level security code protection** prevents unauthorized access and protocol alterations to the Cryotome.



NEW BLADE HOLDER:
Lateral movement of blade holder eliminates
need to unclamp and re-clamp blade.
Maximizes blade usage.

Color coded levers identify lever functions.

Faster Specimen Turn-Around Time

- Microtome outside the cryochamber allows faster temperature adjustment.
- Cryobar with adjustable temperature controls and dedicated cryobar refrigeration system (0° C to -55° C or colder with the boost feature) rapidly cools specimen to help prevent freezing artifact.
- Specimen holder temperature control (FSE only) allows for enhanced sectioning of a variety of tissue types.
- **Shandon Cryotome® cools rapidly** from ambient to set temperature in as little as 2 hours.
- Easy removal of frozen specimen from the cryocassette with the "Quick-heated" specimen release feature.

Safety and Security

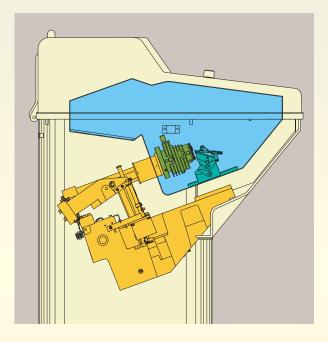
- Microtome outside the chamber allows easy decontamination and cleaning.
- Positive-locking flywheel prevents injury while working around blade and specimen.
- CFC-free refrigerant and foam insulation.
- Automated fumigation cycle to disinfect the cryochamber.

MICROTOME OUTSIDE OF CRYOCHAMBER:

Allows for easy decontamination and cleaning. Faster temperature adjustment.

Ergonomics

- The three-level adjustable footrest provides greater comfort and helps reduce fatigue whether sitting or standing.
- The rounded exterior edges, the raised cutting area, and the footrest provide comfort while sectioning by eliminating back strain and fatigue.
- Various sized shelves allow the user to arrange working layout inside the chamber to suit their individual needs.



SPACIOUS CRYOCHAMBER AND COLOR-CODED CRYOCASSETTES:

Facilitates easy patient / specimen identification.



Shandon Cryotome® FSE / FE Cryostat Series Specifications

Description		Order Number
Shandon Cryotome FE	230V, 50Hz	A78900001
Shandon Cryotome FE	115V, 60Hz	A78900002
Shandon Cryotome FSE	230V, 50Hz	A78900003
Shandon Cryotome FSE	115V, 60Hz	A78900004

Physical Specifications

Dimensions (H x W x D)

49.2" x 27.8" (+ 5" for handle) x 29.3" (125 max. x 70.5 (+ 12.5 cm) x 74.5 cm) WORKING HEIGHT: 41" (105 cm) max.

CHAMBER ACCESS WIDTH: 19.7" (50 cm) min.

Weight

275.6 lbs. (125 kg)

Power Requirements

1800VA (220-240 Vac); 6,147 BTU/Hr 1800VA (110-120 Vac); 6,147 BTU/Hr

Microtome

Section Thickness Adjustment	1 to 20µm in 1µm increments
	20 to 60µm in 5µm increments
Total horizontal specimen advance	25mm
Cutting Stroke	57mm
Trim wheel	8µm indents
Motorized Coarse Advance	1mm/sec
Specimen Retraction Standard	
Refrigeration	
0 1	000 + 000

Specimen Head (FSE only): $$0^{\circ}\text{C}$$ to -45°C (within +/- 10°C of chamber temperature)



SHANDON CRYOTOME FSE / FE / SME BLADE HOLDERS

Specify at the time of order.

SEE PAGE 9 for detailed ordering information.

Included with Cryotome

Specimen Head (FSE) - X-Y Orientation head with specimen temperature control Specimen Head (FE) - X-Y Orientation head without specimen temperature control Cryocassettes - Variety of sizes and styles

Cryobar with cryocassette identifier – 6 positions, 6 heat sink block positions (variable weights), and plastic cover (stops excessive frost build up) Footrest - adjustable to 3 positions

Lockable Heated Window

Heat Extractors (one each standard weight, half-weight, and double weight)
Specimen and Tool Storage Shelves

Debris Tray and Brush

Touch Screen Display

Operator Manual (Specify Language)

A78910100

Specify Knife Holder at the time of order.

SEE PAGE 9.

* Contents, Packaging, and Quantities of items listed under "Included with Product" are subject to change without prior notice.

	Order Number
Low Profile Disposable Blade Holder	See Page 9
High Profile Disposable Blade Holder	See Page 9
Universal Blade Holder	See Page 9
Glass Anti-roll Plate	A78930200
Plastic (perspex) Anti-roll Plate	A78910075
XY orientation head [FE only]	A78910016
Cryobar Cassette Identification Label - 4/pk.	A78910054
Cryobar Cover	A78910041
Cryocassette - 40mm diameter crosshatched - 6/Pk.	A78910031
(multi-colored)	
Shandon Cryocassette, 25 mm annular, 4 / Pk. (with handle	77210150
Shandon Cryocassette, 35 mm annular, 4 / Pk. (with handle	e) 77210151
Shandon Cryocassette, 45 mm annular, 4 / Pk. (with handle	e) 77210152
Shandon Cryocassette, 9.5 mm annular, 4 / Pk. (with handle	e) 77210153
Cryocassette - 40mm diameter annular - 4/Pk. (not shown)	A78910055
Cryocassette - 25 mm diameter crosshatched - 4/Pk.	A78910056
Cryocassette - 28 x 40mm crosshatched - 4/Pk.	A78910057
Handle - 4/Pk.	A78910058
Debris tray	A78910039
Heat Extractor - Standard	A78910014
Heat Extractor - Half-weight	A78910036
Heat Extractor - Double-weight	A78910037
Tool Shelf - 60 mm width	A78930121
Narrow Shelf - 56 mm width	A78930166
Wide Shelf - 80 mm width	A78930063
Wide Brush (Debris)	P12257
Narrow Brush (Sections)	P12940
#4 Camel Hair Brush (see page 12)	1910
Shandon Cryotome FSE Gold Service Plan (see page 16)	A78900004C
Shandon Cryotome FSE Bronze Service Plan (see page 16)	A78900004CPM
Shandon Cryotome FE Gold Service Plan (see page 16)	A78900002C
Shandon Cryotome FE Bronze Service Plan (see page 16)	A78900002CPM

Agency Approvals

Designed to meet IEC 61010, CSA, UL, and CE Mark (IVDD compliant).

Shandon Cryotome® Cryocassettes

Cryocassettes for the Shandon Cryotome FSE / FE / SME cryostats.









77210151* Annular 35 mm 4 / Pk.



77210152* Annular 45 mm 4 / Pk. CEIVE



77210153* Annular 9.5 mm 4 / Pk.



A78910057 28 x 40 mm Cross-hatch 4 / Pk.



A78910056 25 mm Cross-hatch 4 / Pk.



* One each supplied in Variety Pack 77210154.

NOTE:

Shandon Cryotome FSE / SME has specimen holder components pre-mounted in cryochamber (cryocassette clamp, XY orienting head, and peltier). These components are replaceable only through Thermo Electron Corp., Anatomical Pathology Service Department. Call for details.



A78910058 Cryocassette Handle 4 / Pk.

Shandon Cryotome E Cryocassettes and Accessories – see Anatomical Pathology Product Catalog for complete ordering information.

Suggested Cutting Temperatures for Frozen Tissue

Tissue Type	Chamber Temperature (°C)
Unfixed Tissue	
Brain	-12 °
Liver	-14 °
Lymph Nodes	-14 °
Kidney	-16 °
Spleen	-16 °
Muscle	-20 °
Thyroid	-20 °
Skin	-25 °
Breast	-25 °
Breast with Fat	-30° or below
Adipose Tissue	-30° or below
FIXED TISSUE	-12° to -17°

MINATAGMING BIVIS

Shandon Cryotome® SME Cryostat

Fully automated cryostat.



Safety

- Features formaldehyde fumigation for the cryochamber — a method proven effective against tuberculosis and many other known pathogens.
- Fumigation and defrost may be activated instantly or programmed to delay.
- The cryochamber window automatically locks during formaldehyde fumigation.
- Waste fluids drain efficiently into easy-access collection jar.
- Positive-locking flywheel with 3position lock.
- Locking, frost-free window places a barrier between the operator and the specimen.
- Features an emergency stop button.

Peltier Controls

- Peltier-controlled cold spot on the Cryobar aids quick-freezing to -60° C, reducing ice crystal artifact formation.
- Peltier-controlled specimen head to ± 10° C of chamber temperature.

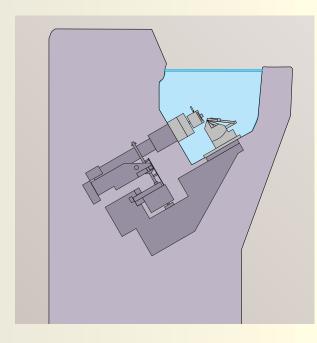
Spacious Cryochamber

- Cryochamber temperature to -30°C.
- Operator controls microtome movement from outside of cryochamber.
- **Open-top design** minimizes temperature gain during prolonged use.
- Well-illuminated, stainless steel chamber.
- **CFC-free refrigerant** and foam insulation.
- Accessories in the cryochamber are removable for easy cleaning and disinfecting of the chamber.
- Automatic programmable defrost.
- Automatic programmable formaldehyde fumigation.



Microtome Features

- Microtome is housed outside the cryochamber for easy cleaning and maintenance.
- Precision microtome has a light, balanced feel over the complete travel range.
- Shandon Cryotome SME features ACCU-FEED system with
 25,000 µm advance that may be set at 1-20µm intervals in 1 µm increments and 20-60µm intervals at 5µm increments
- 360° specimen orientation capability.



Control Panel

 Shandon Cryotome SME cryostat features microprocessorbased, touch-key controls with specimen travel graphic indicator, clear digital displays of cryochamber and cryobar temperatures.



Accessories

- Select from universal blade holder, high-profile disposable blade holder, or low-profile disposable blade holder.
- High and low-profile blade holder includes an easy-to-use, glass anti-roll plate.
- Universal blade holder includes a plastic anti-roll plate.
- XY orientation head is standard.

Shandon Cryotome® SME Cryostat Series Specifications

Description		Order Number
Shandon Cryotome SME	110-120V, 60Hz	77200002
Shandon Cryotome SME	220-240V, 50Hz	77200001
Corman and Franch kowhoards are available. Contact your cales representative for		

German and French keyboards are available. Contact your sales representative for details.

Physical Specifications

Dimensions (H x W x D)

42.5" x 26" x 25.5" (107 x 66 x 64 cm)

Weight

330 lbs. (150 kg)

Power Requirements

1400VA (220-240 Vac) 1700VA (110-120 Vac)

Included with Shandon Cryotome SME*	Order Number
XY Orientation head with specimen temperature control	Included
Debris Tray	0620-004
Storage Shelf	0620-002
Shandon Cryocassette, 35 mm annular, 4 / Pk. (with handle)	77210151
Shandon Cryocassette, variety pack	77210154
1 ea. 10, 25, 25, 45 mm annular with 2 handles	
Footswitch	77220533
Operator Manual (specify language)	77210160
Service Record Book	A77210167

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Available Accessories for Shandon Crytome SME Or	der Number
Shandon Low Profile Disposable Blade Holder	See Page 9
Shandon High Profile Disposable Blade Holder	See Page 9
Shandon Universal Blade Holder	See Page 9
Cryocassette - 40mm diameter crosshatched - 6/Pk.	A78910031
(multi-colored)	
Shandon Cryocassette, 25 mm annular, 4 / Pk. (with handle)	77210150
Shandon Cryocassette, 35 mm annular, 4 / Pk. (with handle)	77210151
Shandon Cryocassette, 45 mm annular, 4 / Pk. (with handle)	77210152
Shandon Cryocassette, 9.5 mm annular, 4 / Pk. (with handle)	77210153
Cryocassette - 40mm diameter annular - 4/Pk.	A78910055
Cryocassette - 25 mm diameter crosshatched - 4/Pk.	A78910056
Cryocassette - 28 x 40mm crosshatched - 4/Pk.	A78910057
Handle - 4/Pk.	A78910058
Shandon MOHS Organizer Tray	77230046
Replacement Handles for SME Cryocassettes	77220537
Plastic Knife Guard	A77210064
Glass Anti-Roll Plate	A78930200
Service Manual (Specify Language)	77210166
Shandon Cryotome SME Gold Service Plan (see page 16)	1196101
Shandon Cryotome SME Bronze Service Plan (see page 16)	1196101PM

Agency Approvals

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Shandon Cryotome® Accessories



A78910014 Heat Extractor Standard Shandon Cryotome FSE / FE ONLY



A78910036 Heat Extractor Half-weight Shandon Cryotome FSE / FE ONLY



A78910037 Heat Extractor Double-weight Shandon Cryotome FSE / FE ONLY



A78930200 Glass Anti-roll Plate



A77210064 Plastic Knife Guard



P12940 Narrow Brush



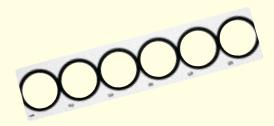
Wide Brush



Cryobar Cover Shandon Cryotome FSE / FE ONLY



Tool Shelf Shandon Cryotome FSE / FE ONLY



A78910054 Cryobar Cassette Identification Label - 4 / Pk. Shandon Cryotome FSE / FE ONLY





A78910039 Debris Tray Shandon Cryotome FSE / FE ONLY



Narrow Shelf Shandon Cryotome FSE / FE ONLY

Shandon Cryotome® Blade Holders

Blade holders for the Shandon Cryotome FSE / FE and SME / E.

Shandon Universal Blade Holder



- Accepts standard "C" or "D" profile knife up to 220 mm. (120 mm is standard length.)
- May be used with standard steel knives or with disposable blade holder.
- Use in conjunction with Disposable Blade Holders Part Nos. 40 or No. 47. See Page 11.

Description	Order Number
Shandon Universal Cryotome Blade Holder	A78910047

Shandon Low-Profile Blade Holder



- Lateral movement of blade holder eliminates need to unclamp and re-clamp blade.
- Color coded levers identify lever functions.
- Use with low-profile disposable blades. See Page 10.

Description	Order Number
Shandon Low Profile Cryotome Blade Holder	A78910032
Base and Top Stage	

Shandon High-Profile Blade Holder



- Lateral movement of blade holder eliminates need to unclamp and re-clamp blade.
- · Color-coded levers identify lever functions.
- This holder will accept either standard or heavy-duty high-profile blades, providing a wide range of tissue sectioning.
 See Pages 10 and 11.

Description	Order Number
Shandon High Profile Cryotome Blade Holder	A78910033

Shandon Cryostat Lubricating Oil

• Available in 4 oz. (118 ml) bottle.

Description	Pkg/Qty	Order Number
Shandon Cryostat Lubricating Oil	Each	291

Shandon MOHS Organizer Tray



- Holds multiple cryocassettes for better organization of specimens.
- Measures 10.5" x 4.7" (26.6 x 11.9 cm).
- For use in Shandon Cryotome SME.

Description	Order Number
Shandon Mohs	77230046
Organizer Trav	

Disposable Blades

Low Profile

Description	Benefits
Shandon MB DynaSharp™ Low-Profile Disposable Blade 80 x 8 x 0.25 mm 34° Facet Angle	Ribbons well from initial cut. Best for derm and biopsy tissues. Increased sharpness lowers friction during sectioning. Quickly reaches optimal performance.
Shandon MX35 Premier Low-Profile Disposable Blade 80 x 8 x 0.25 mm 34° Facet Angle	Increased durability. Increased sharpness lowers friction and lessens resistance during sectioning. Reduces blade usage.
Shandon MX35 Premier Low-Profile Disposable Blade 80 x 8 x 0.25 mm 34° Facet Angle	Durable – longer blade life Longer optimal sectioning performance.
Shandon MB35 Premier Low-Profile Disposable Blade 80 x 8 x 0.25 mm 34° Facet Angle	Ribbons well from initial cut. Well suited for routine sectioning. Quickly reaches optimal performance.
Shandon MB22 Premier Low-Profile Disposable Blade 80 x 8 x 0.25 mm 22° Facet Angle	Excellent for needle biopsies of kidney and liver. Quickly reaches optimal sectioninng performance. Use where 1 - 2 micron sections are desired.
Himb Durfile	



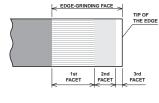
Description	Benefits	
Shandon HP35 High Profile Disposable Blade with PTFE Coating 75 x 14 x 0.31 mm 34° Facet Angle	Durable – longer blade life Quickly reaches optimal sectioning performance.	(€ ₪
Shandon HP35n High Profile Disposable Blade without PTFE Coating 75 x 14 x 0.31 mm 34° Facet Angle	Increased durability. Low cost.	(€ M)



Structure of a Blade Edge

Superior Edge Profile

The shape of the blade edge is optimized to provide excellent sectioning performance, ensuring easier ribboning and improved sharpness.



Coating

Coating is optimized to provide durability and easy ribboning.



Description	Pkg/Qty	Order Number
Shandon MB DynaSharp Low Profile	50 / Pk.	3050836
Shandon MX-35 Premier+ Low Profile	50 / Pk.	3052835
Shandon MX-35 Premier Low Profile	50 / Pk.	3051835
Shandon MB-35 Premier Low Profile	50 / Pk.	3050835
Shandon MB-22 Premier Low Profile	50 / Pk.	3050822
Shandon HP-35 Coated High Profile	50 / Pk.	3150734
Shandon HP-35n High Profile	50 / Pk.	3152735

Microtome Knives / Blade Holders



Tungsten Carbide Microtome Knife

 D-profile has tungsten carbide tip for extra strength and support to the cutting edge.

Standard Microtome Knives

- Superior quality surgical steel is thoroughly tempered and individually tested for hardness.
- Round back design is precisely balanced and shaped.

Premium Microtome Knives

- Precision ground for outstanding sectioning and extended cutting life; flat-back design.
- Assured performance through multiple tests.
- All Shandon C-profile and D-profile knives are drilled and tapped in the base for direct attachment to holders for sharpening.
- Four lengths of C-profile knives: 120 mm, 160 mm, 185 mm and 240 mm.
- Two lengths of D-profile knives: 160 mm and 240 mm.

Stainless Steel Microtome Knives

- Ideal for cryostats. Round-back design.
- Replaces carbon steel wherever moisture is a problem to prevent minute oxidation which may occur on ordinary microtome knife edges.
- Resists corrosive action.
- Hardened throughout to the exact temper for the best quality in edge efficiency and tested for hardness.

Description	Pkg/Qty	Order Number
D-Profile Microtome Knife	Each	5601006
Tungsten Carbide Tip, Blade Length: 160 n	nm	
Standard Microtome Knife	Each	7702
Round Back, Blade Length: 125 mm		
Stainless Steel Back	Each	77022
For 125 mm Standard Microtome Knife 77	~_	
Standard Microtome Knife	Each	7703
Round Back, Blade Length: 185 mm		
Stainless Steel Back	Each	77023
For 185 mm Standard Microtome Knife 77		
Standard Microtome Knife	Each	7704
Round Back, Blade Length: 250 mm		
Stainless Steel Back	Each	77024
For 250 mm Standard Microtome Knife 77		
Shandon C-Profile Microtome Knife	Each	9992009
Flat-back, Blade Length: 120 mm		
Shandon C-Profile Microtome Knife	Each	9992011
Flat-back, Blade Length: 185 mm		
Shandon C-Profile Microtome Knife	Each	2222003
Flat-back, 160 x 34 x 10 mm		
Shandon C-Profile Microtome Knife	Each	2222005
Flat-back, 240 x 33 x 13 mm		
Shandon D-Profile Microtome Knife	Each	2222006
Flat-back, 240 x 33 x 14 mm		
Shandon D-Profile Microtome Knife	Each	2222004
Flat-back, 160 x 34 x 10 mm		
Stainless Steel Microtome Knife	Each	7619
Round-back, Blade Length: 125 mm		
Stainless Steel Microtome Knife	Each	7719
Round-back, Blade Length: 185 mm		

Stainless Steel Disposable Blade Holder



- · All stainless steel construction.
- Holds most standard high- and low-profile blades.
- Fits most standard microtomes and cryostats.

Description	Order Number
Stainless Steel Disposable Blade Holder, 6.7" (170 mi	m) 40

Spring-Loaded Disposable Blade Holder



- Spring-loaded clamp enables easy knife changes.
- Shaped like standard microtome knife to fit most standard microtomes and cryostats.
- Holds most heavy-duty blades, including the Shandon Premium Heavy-Duty blades (see below).

Description Order	Number
Spring-Loaded Disposable Blade Holder, 5.1" (130 mm)	47

Shandon Standard High Profile Disposable Blades



Description	Pkg/Qty	Order Number
Shandon Standard High Profile	100 / Pk. x 5	49

Shandon Premium High Profile Disposable Blades





Description	Pkg/Qty Orde	r Number
Shandon Premium High Profile	50 / Pk.	1001259
Shandon Premium High Profile with PTFE	50 / Pk.	1001593
Shandon Premium Heavy-Duty High Profile	30 / Pk.	1702

Cryotomy Accessories / Consumables

Shandon M-1 Embedding Matrix



- Particularly effective on specimens with high water content such as eyes and CNS.
- Water soluble, clear, embedding matrix
- Optimum sectioning temperature of -12° to -13° C.

Description	Pkg/Qty	Order Number
Shandon M-1 Embedding Matrix	180 ml x 1	1310

Shandon Cryomatrix™



- Outstanding embedding resin used to support tissue for frozen sectioning.
- Forms a firm bond with the specimen holder that secures and supports tissue.
- · Removed during staining.
- Freezes quickly, sections smoothly, and dissolves in water without residue.

Description	Pkg/Qty	Order Number
Shandon Cryomatrix	120 ml x 4	6769006

Envi-Ro-Tech™ Freezer Spray



- Ozone-friendly freezing spray for use at the microtome and cryostat.
- Facilitates rapid freezing and consistent results.
- Attachable capillary nozzle enables spot freezing.
- Contains 1,1,1,2-tetrafluoroethane.

Description	Pkg/Qty	Order Number
Shandon Envi-Ro-Tech Freezer Spray	6 / Cs.	6769038

Shandon Camel Hair Brush



• Epoxy painted wood handle with a total length of 7.5" (19.1 cm).

Description	Pkg/Qty	Order Number
Shandon Camel Hair Brush	12 / Pk.	1910

Shandon Cryochrome™



- Outstanding embedding resin used to support tissue for frozen sectioning.
- Color-codes frozen sections for easy identification and tracking.
- Four colors available pink, blue, yellow, green.
- Formulated with physical characteristics identical to Shandon Cryomatrix™.
- Shandon Cryochrome Kit includes Colorfrost slides to match Shandon Cryochrome colors.

Description	Pkg/Qty	Order Number
Shandon Cryochrome Kit	Each	9990427
1 each pink, blue, yellow, green 120 ml Bottle	Э	
100 of each pink, blue, yellow, green Colorfront	ost Slides.	
Shandon Cryochrome Compound Sample	er 4 / Pk.	9990426
1 each pk, bl, yllw, grn 120 ml Bottle		
Shandon Cryochrome Compound	4 / Pk.	9990429
PINK, 120 ml		
Shandon Cryochrome Compound	4 / Pk.	9990422
BLUE, 120 ml		
Shandon Cryochrome Compound	4 / Pk.	9990423
YELLOW, 120 ml		
Shandon Cryochrome Compound	4 / Pk.	9990428
GREEN, 120 ml		

Shandon Heat Extractor



- Speed freezing process for frozen section specimens.
- Provides freezing action in seconds.
- Planes the block surface parallel to knife edge to minimize trimming.
- Hand-held to permit use in all makes of cryotomes and cryostats.
- Stainless steel block is 1.2" (3 cm) diameter.
- Steel stem is 3" (7.6 cm) long and fitted with a plastic knob.

Description	Pkg/Qty	Order Number
Shandon Heat Extractor	Each	2821

Shandon Rapid-Chrome H&E Frozen Section Staining Kit



Produces permanently stained slides. The kit includes Rapid-Fixx™, an economical, alcohol-based formalin ideal for fixing slides from frozen sections.

Kit Components:

- Rapid-Fixx[™] Fixative
- Deionized Water
- Eosin Y
- Xylene

- Gill™ 3 Hematoxylin
- Bluing Reagent
- 100% Alcohol
- · Mounting Medium

Description	Pkg/Qty	Order Number
Rapid-Chrome H&E	100 Slide Capacity / Kit	9990001
Frozen Section Staining Kit		

Shandon Histobath™ 2



- Prevents the development of microscopic ice crystals and sample distortion caused by hyperosmolar tissue samples that are slowly frozen in a cryostat.
- Excellent method for snap-freezing tissue for enzyme assay.
- Tissue freezes through transfer of heat from the tissue to the working fluid in the chamber.
- Stainless steel mesh basket makes immersion quick and neat.
- Uses a CFC-free refrigerant and has stable temperature control.

-		
Description		Order Number
Shandon Histobath 2	110-120V, 60Hz	2431030
	220-240V, 50Hz	2431035

Physical Specifications		
Dimensions (H x W x D)		
External:	14.75" x 19.25" x 13.5" (38 x 24 x 34 cm)	
Bath Work Area:	4" Dia. x 5" Deep (10.2 x 14 cm)	
Weight		
55 lbs. (25 kg)		
Bath Volume		
33.8 oz. (1 L)		

Shandon Rapid-Chrome Kwik-Diff™ Staining Kit



Specially configured for performing quick, high-quality differential stains. Ideal for FNA carts.

Kit Components:

- Fixative
- Eosin
- Secureline® Marker

- Methylene Blue
- L
- Deionized Water
- Spill-Free Slide Jar
- Resin Mount Mountant
- 1 Plastic Slide Grip
- Superfrost® Slides
- 1 Cardboard Slide Folder

• 24 x 50, No. 1 Coverglass

Description	Pkg/Qty	Order Number
Rapid-Chrome	100 Slide Capacity / Kit	9990702
Kwik-Diff Staining Kit		

Shandon Frozen Section Staining Kit



- Kit includes 12 beakers, a stainless steel slide holder, and a heavy-gauge stainless steel support rack with six round openings to hold beakers.
- Sturdy cover with piano hinge seals beakers minimizes evaporation.
- Glass beakers have a capacity of 6.75 oz. (200 ml) and are 4" (100 mm) tall.
- Slide holder will hold ten 3" x 1" (76 x 26 mm) slides.
- Stainless steel support rack measures 0.85" x 1.9" x 0.89" (21.6 x 48.3 x 22.6 mm).

Description	Pkg/Qty	Order Number
Shandon Frozen Section Staining Kit	Each	145
Glass Beakers Only	12 / Pk.	146
Slide Holder Only	Each	147
Stainless Steel Support Rack Only	Each	23145

Shandon Linear Stainers for Cryotomy

Shandon Linistat™ Linear Stainer



- Compact answer to H&E frozen section protocols.
- Efficient footprint fits on top of most cryostats for streamlining workflow during frozen sectioning.
- Features include 14 staining stations (20 sec. each), running water, and a 13-slide capacity collection tank.
- · Staining time is under five minutes.
- Shandon color-coded slide clips correspond to the colored slides and colored frozen section embedding media, Shandon Cryochrome[®].

Description		Order Number
Shandon Linistat	110-120V, 60Hz	B1000200
Shandon Linistat	220-240V, 50Hz	B1000201

Agency Approvals

Designed to meet IEC 61010, CSA, UL, and CE Mark (IVDD compliant).

Included with Product*	Order Number
Single Station Staining Dishes	6754003
Double Station Staining Dishes	6754004
Slide Clips	See "Available Accessories"
Rinse Water Tubing Kit	7879070

Contents, Packaging, and Quantities of items listed under "Included with Product" are subject to change without prior notice.

Available Accessories	Order Number
Double Station Staining Dishes - 5/Pk.	6754004
Single Station Staining Dishes - 10/Pk.	6754003
Slide Clips, Pink - 25 / Pk.	6754005
Slide Clips, White - 25 / Pk.	6754002
Slide Clips, Blue - 25 / Pk.	6754006
Slide Clips, Yellow - 25 / Pk.	6754007
Slide Clips, Green - 25 / Pk.	6754008
Anti-evaporation Lid (Single Station)	231644
Anti-evaporation Lid (Double Station)	231645
Anti-evaporation Lid (Triple Station)	231646
Stainless Steel Holding Tank	7860260
Evaporation cover - 18" (46 cm)	B1000223

Physical Specifications

Dimensions (H x W x D)

18.4" x 25" x 6.25" (27 x 64 x 15.9 cm) Clearance Height: 9.75" (24.8 cm)

Weight

16.3 lbs. (7.3 kg)

Power Requirements

110-120 VAC, 60 Hz, Maximum 2.0A 220-240 VAC, 50/60 Hz, Maximum 1.0A

Shandon Linistain™ SLS Linear Stainer



- The 23-station (30 sec. each) Shandon Linistain SLS is an
 economical, midsize linear stainer especially useful for cytology
 staining and other procedures that do not require heat.
- Water wash may be added at any station.

Description		Order Number
Shandon Linistain SLS	110-120V, 60Hz	1903601
Shandon Linistain SLS	220-240V, 50Hz	1903602

Agency Approvals

Designed to meet IEC 61010, CSA, UL, and CE Mark (IVDD compliant).

Included with Product*	Order Number
Single Station Staining Dishes	6754003
Slide Clips	See "Available Accessories"
Rinse Water Tubing Kit	7879070
Elevated Feet	231420

* Contents, Packaging, and Quantities of items listed under "Included with Product" are subject to

Available Accessories	Order Number
Double Station Staining Dishes - 5/Pk.	6754004
Single Station Staining Dishes - 10/Pk.	6754003
Slide Clips, Pink - 25 / Pk.	6754005
Slide Clips, White - 25 / Pk.	6754002
Slide Clips, Blue - 25 / Pk.	6754006
Slide Clips, Yellow - 25 / Pk.	6754007
Slide Clips, Green - 25 / Pk.	6754008
Anti-evaporation Lid (Single Station)	231644
Anti-evaporation Lid (Double Station)	231645
Anti-evaporation Lid (Triple Station)	231646
Stainless Steel Holding Tank	7860260
Evaporation cover - 13" (33 cm)	231643
Evaporation cover - 18" (33 cm)	B1000223

Physical Specifications

Dimensions (H x W x D)

6" x 43" x 6" (15.2 x 109.2 x 15.2 cm) Clearance Height: 12" (30.5 cm)

Weight

40 lbs. (18.1 kg)

Power Requirements

110-120 VAC, 60 Hz, Maximum 2.0A 220-240 VAC, 50/60 Hz, Maximum 1.0A

Shandon Stains and Reagents

Shandon Harris Hematoxylin 🥌



No mucoid staining.

Description	Pkg/Qty	Order Number
Shandon Harris	4 L x 1	6765004
Acidified Hematoxylin		
Shandon Harris	1 L x 2	6765003
Acidified Hematoxylin		
Shandon Harris	4 L x 1	6765002
Nonacidified Hematoxylin		
Shandon Harris	1 L x 2	6765001
Nonacidified Hematoxylin		

Shandon Instant Hematoxylin 🥌



- No mucoid staining.
- Stains from blue-black to light blue, depending upon preparation.

Description	Pkg/Qty	Order Number
Shandon Instant Hematoxylin	6 / Pk. (Makes 1 L x 6)	6765015

Shandon Gill™ Hematoxylin **@**



- · Mucoid staining.
- Gill 1; Light blue nuclei.
- Gill 2: Medium blue nuclei.
- Gill 3: Blue-black nuclei.

Description	Pkg/Qty	Order Number
Shandon Gill 1 Hematoxylin	4 L x 1	6765006
Shandon Gill 1 Hematoxylin	1 L x 2	6765005
Shandon Gill 2 Hematoxylin	4 L x 1	6765008
Shandon Gill 2 Hematoxylin	1 L x 2	6765007
Shandon Gill 3 Hematoxylin	4 L x 1	6765010
Shandon Gill 3 Hematoxylin	1 L x 2	6765009

Shandon Reagent Alcohol

- Blend of 90% absolute ethanol; 5% methanol; 5% isopropanol.
- Use in place of absolute (100%) ethanol for most pathology procedures.
- No license required by Bureau of ATF.

Description	Pkg/Qty	Order Number
Shandon Reagent Alcohol	4 L x 1	9990520
Shandon Reagent Alcohol	209 L (55 gal.)	B9990521

Shandon Rapid-Fixx™ Formalin **@**



- Used in Rapid-Chrome[™] Frozen Section Stain Kit (9990001) for fixing frozen section slides.
- Excellent for antigenic preservation, avoids the need for enzyme digestion, and rapidly penetrates into tissue.

Description	Pkg/Qty	Order Number
Shandon Rapid-Fixx	1 L x 2	6764212

Shandon Bluing Reagent @

- Blues hematoxylin-stained nuclei.
- Gentle no loss or lifting of material from slides associated with ammonia water.
- · Thoroughly pH-controlled for completely effective bluing.
- Ready-to-use.

Description	Pkg/Qty	Order Number
Shandon Bluing Reagent	4 L x 1	6769002
Shandon Bluing Reagent	1 L x 2	6769001

Shandon Eosin Y 🧠



- Stable and precipitate-free no filtering.
- Ready to use; produces consistent results.
- pH-adjusted for maximum stain uptake.
- Produces brilliant staining.
- Available in alcoholic or aqueous formulations.

Description	Pkg/Qty	Order Number
Shandon Eosin Y Alcoholic	4 L x 1	6766008
Shandon Eosin Y Alcoholic	1 L x 2	6766007
Shandon Eosin Y Aqueous	4 L x 1	6766010
Shandon Eosin Y Aqueous	1 L x 2	6766009

Shandon Instant Eosin



- Stable and precipitate-free no filtering.
- Produces consistent results.
- pH-adjusted for maximum stain uptake.
- Produces brilliant staining.
- Economical powder stores indefinitely.
- Available as either an alcoholic or aqueous formulations.

Description	Pkg/Qty	Ord	er Number
Shandon Instant Eosin (alcoholic)	6 / Pk. (Makes	6 L)	6765040
Shandon Instant Eosin (aqueous)	6 / Pk. (Makes	6 L)	6765540

Shandon Xylene

Description	Pkg/Qty	Order Number
Shandon Xylene	4 L x 1	9990501
Shandon Xvlene	10 L x 2	9990502

Shandon Xylene Substitute

Description	Pkg/Qty	Order Number
Shandon Xylene Substitute	4 L x 1*	9990505
Shandon Xylene Substitute	4 L x 4	6764506
Shandon Xylene Substitute	10 L x 2	6764508
Shandon Xylene Substitute	19 L	9990507
Shandon Xylene Substitute	209 L (55 Gal.)	9990509

Microscope Slides



Shandon Colorfrost® Slides

- Available in a wide variety of colors for easy identification.
- Resistant to commonly used laboratory solvents.
- 1.0 1.2 mm thick with ground edges.

Shandon Colorfrost® Plus Slides

- Positively-charged microscope slides give improved cellular adhesion.
- Electrostatically attracts tissue sections and cytology preparations, binding them to the slide.
- Eliminates the need for special adhesives or protein coatings.

Shandon Colormark® Slides



COLORMARK Slides are designed for the Shandon MicroWriter™ Slide Labeler. A contrasting color is printed on the back of the Colorfrost end so that patient or specimen information etched through the painted end on the front is clearly visible. These slides are also available with positively-charged Colorfrost Plus adhesion coating for better specimen mounting.

> **For Complete Microscope Slide Ordering Information** See Anatomical Pathology **Product Catalog.**

Technical Services

Rest easy with Thermo Electron Service.



Downtime equals wasted time.

With today's busy laboratory environments, where resources are constrained, workloads continue to increase, funds are limited, and productivity is the key to success, having to deal with an instrument that is not working as hard as you are - or not at all - is simply not acceptable.

At Thermo Electron Anatomical Pathology, we understand how important it is to keep your lab up and running. No matter what your service requirements are, Thermo AP has a solution that can help keep you working at peak efficiency.

- Flexible programs based on your workflow and particular laboratory needs.
- . Only original factory parts are used for repair and maintenance.
- Our factory-trained technicians are conveniently located throughout the country and have years of experience servicing Thermo AP equipment.
- Standard 24/7/365 technical phone support (U.S. Only).
- Technical hotline service available.

Our Gold Plan* provides maximum coverage and priority response. It covers all costs including labor, travel time, expenses, and parts. An annual preventative maintenance inspection is performed by a factory certified service engineer to provide continued optimal performance of your Thermo instrument.

Our Silver Plan* offers the same coverage as our standard manufacturer's warranty. All repair costs are included and pre-budgeted so you do not experience the surprise of unplanned expenses.

Our Bronze Plan* is a prevention plan. Once a year, one of our factory certified service engineers will perform preventative maintenance inspection on your instrument to ensure that your instrument is working properly and meeting factory standard specifications. Service includes instrument lubrication, cleaning, calibration, and performance checks, as applicable.

* Service Plan Coverage varies in different countries.



Anatomical Pathology Latin America/Canada