

TISSUE EMBEDDING CENTER



Tissue Embedding Center (Model No. : MW-3080-STE-004)

Tissue embedding system is designed fit your needs. Each high capacity module is designed with temperature controls that can be adjusted, monitored and switched on and off independently. The extra large work area of the Tissue Embedding system helps reduce the constant shuffling of blocks between work areas in the lab. The modular design and identical working surface heights allow you to combine units in any configuration to create the perfect all-in-one workstation to meet your laboratory needs. The controls and digital displays are clear and easy to operate.

Product Features:

Embedding centre with hot & cold plates run and provision of alarm or error messages	Reduced cross contamination
Sealed work surfaces	Brightly lit orientation space for block preparation
Wax flow control system	Superior design & construction
3.0 liter paraffin tank	One collection tank for easy cleaning
Four-position, integral forceps warming block	Flexible gooseneck magnifying glass
Ready to use with electrically heated forceps	Cold plate : -5° C (optional -10 Deg. C)
Hot Plate: 55° C to 70° C	Tissue storage : 40° C to 80° C
Paraffin Tank: 40° C to 70° C +/-1 ° C	Power Supply : 220-230 V, 50 Hz. Ac

CRYOSTAT MICROTOME



Cryostat Microtome (Model No.: MW-1010-SMT-011)

Spacious Cryo chamber	Quick freeze Cryo bar.
Microtome housed at the back outside cryo chamber	Smooth running handwheel with motion lock
Powerful quick response refrigeration system	Interior Lighting
Microprocessor based digital Temperature Control & Display	Heavy duty castors for easy movement of the unit
Motorized specimen Forward & reverse	Robust Ergonomically Designed Microtome

Cryostat Microtome is specifically designed for Cryotechniques suitable for Clinical & Research operation. Cryostat with its ergonomic design guarantees relaxed efficient working conditions. The microtome offers the performance, ease-of-use and versatility to make it the ideal instrument in all types of laboratory work. The Cryostat Microtome is used for cutting thin sections of fresh, frozen material.

Product Specifications :

Temperature Range: Upto -40 Degree C	Range of section thickness 1 - 60µm
Section Thickness Indication Visual display.	2 to 10 in 1 µm steps ; 10 to 20 in 2 µm steps ; 20 to 60 in 5 µm steps
Horizontal specimen feed 25 mm	Vertical specimen stroke 60 mm (+/-1mm)
Knife Holder Adjustments North-south Adjustment with Clockwise Clamping Mechanism	Reverse Wheel Trimming Operation with reverse Wheel (Forward & reverse buttons)
Type of Knife used Microtome Knives of size 100-180MM	Disposable Blade Can be used with SPENCERS blade holder

MICRO CONTROLLED CRYOSTAT MICROTOMES



Micro Controlled Cryostat Microtomes (Model No. : MW-1010-SMT-012)

Cryostat Microtome is specifically designed for Cryotechniques suitable for Clinical & Research operation. Our Cryostat with its ergonomic design guarantees relaxed efficient working conditions. The microtome offers the performance, ease-of-use and versatility to make it the ideal instrument in all types of laboratory work. The Cryostat Microtome is used for cutting thin sections of fresh, frozen material.

Temperature range:

Temperature range from -45 °C to -60 °C.

Spacious Cryochamber:

It provides convenient access to the elegantly designed freezing chamber with the best quality controlled refrigeration system which can be set to maintain temperature up to -45 degrees C. The cryo bar inside the cryo chamber enables fast freezing of the specimen. Microtome Control functions are outside chamber. Open top design to minimize temp gain during prolonged use. Waste fluids drain efficiently into easy access collection jar.

The Microtome:

With a proven track record for cutting a diverse range of hard and soft tissues, plastics, rubber, bone, manmade fibres, wood and many other materials. The cryostat is designed specifically for low temperature operation. The rotary microtome at the heart of the cryostat is designed specifically for high performance and at the same time withstand up to the rigorous conditions imposed by frozen section work. The microtome mechanism is housed outside the cryochamber for easy cleaning & maintenance.

Product Features :

Designed with maintenance free roller bearing slide ways	Precise mechanism that ensures optimum sectioning results
All locks & adjustments are readily accessible for fast & safe operation	A heavy and rigid base to render a shake proof operation
High precision and stability for fast, secure and comfortable operation	Convenient and accurate specimen advance
Reduces hand stress via smooth-running hand wheel	Reduces hand stress via smooth-running hand wheel
Section Thickness Indication: Visual LCD display	Range of section thickness: 1-99µm (in 1µm steps)
Coarse specimen advance: 99µm	Horizontal specimen feed: 25 mm
Vertical specimen stroke: 60mm (+/-1mm)	Specimen orientation: Orientation in three axes (360 degrees)
Knife Holder Adjustments: North-south Adjustment with Clockwise Clamping Mechanism	Type of Knife used: Microtome Knives of size 100-180MM

TISSUE PROCESSOR



Tissue Processor (Model No.: MW-1040-STP-003)

Automatic Tissue Processor is a compact and sturdy instrument designed with latest technology for complete automatic dehydration and filtration of human, animal and plant's tissues, up to final fixing in wax. Pre-programmable provision for dehydration cycle (user selectable) is a standard feature.

Features :

Safety device to protect tissues in wax during electric failures	High performance motor and gear ensure silent and smooth operation
Fixed easy to clean circular platform	Maintenance free
1 litre beaker with cover and individual carriers for safety	Digital controlled wax bath with overheat cut out safety features
Tissue Basket is suitable for Stainless Steel tissue containers or disposable cassettes	

Supplied complete with the following :

Wax Bath: 2 nos	Stainless Steel Basket: 1 no
Tissue Containers: 10 nos	24 Hr. timing calibrated timing discs: 6 nos
Dust Cover	Basket Rotor

SLIDE STAINING MACHINES



Slide Staining Machines (Model No.: MW-1030-SSM series)

Slide staining Machines offered in two different models which can be programmed to automatically carry out all slide staining techniques from the simple routine of hematology to the more sophisticated techniques in cytology and histology. We offer two models with 12 and 23 stations as under.

Model No. MW-1030-SSM-001 for 12 stations:

Simple and heavy duty model of Slide Staining Machine with 12 stations for haematology also for staining of Blood films etc.

Supplied complete with the following:

- >Staining Trough inlet/outlet: 12 nos.
- >Slide Carrier: 01 no.
- >Timing disc calibrated for 1 hr.
- >Plier and Dust Cover.

Model No. MW-1030-SSM-002 for 23 stations:

Most advanced Automatic Slide Staining machine with 23 stations designed to meet all types of staining techniques with a provision of two tier system for complete staining in cytology and histology. Divided in 11 stations and 12 stations in upper and lower tier.

PARAFFIN WAX DISPENSER



Paraffin Wax Dispenser (Model No.: MW-2030-SPD-001)

Paraffin wax Dispenser is used in Histopathology lab., Forensic medicine lab, and anatomy lab where wax embedded module or blocks are prepared. The paraffin wax bath is specially designed for applications where large volume of paraffin is required, to facilitate for collecting wax for embedding purpose. The paraffin wax dispenser has a tap with temperature control so that wax is not stuck to tap. It flows free when melted from the paraffin wax dispenser.

Technical Specifications :

Temperature is controlled by thermostat or micro processor based digital controller and is kept at +70 degrees C	Inner and outer wall of the paraffin wax dispenser are made of SS with insulation between the walls
The Paraffin wax dispenser is also provided with microprocessor based digital temperature controller cum indicator as per customer requirements	Paraffin wax dispenser with customized tailor make capacity also available on request

CRYOGENIC FREEZERS



Cryogenic Freezers (Model No.: MW-1180-SFR-150 series)

Cryogenic Freezers ideally suited for ultra low and cryogenic storage in laboratories, long-term preservation and storage of blood, specimens and components, and testing of various types. The technology maximizes storage capacity over conventionally insulated models.

Design Concept

Cryogenic Series -150°C ultra-low temperature freezers use patented revolutionary vacuum insulation cabinet construction that reduces the wall thickness from 175mm to 135mm (6.9" to 5.3") and achieves up to 25% more storage capacity than a conventionally insulated freezer without increasing the footprint.

This design prevents the insulation layers from distortion and cracking that might occur due to temperature differences inside and out, and creates the most efficient insulation material available today. Moisture condensation at the top edges of the cabinet due to differences in temperature inside and out causes frost and icing problems, which may reduce heat insulation efficiency and obstruct door movements. These obstructions are prevented by the "hot line" which prevents frost and condensation from forming on the gasket and million.

The newly developed refrigeration system and the freezer structure offer a quiet experimental environment. Achieves 50% higher energy conservation than conventionally insulated model.

Specially Designed Compressor for Cryogenic Temperatures

The refrigeration system is at the heart of producing cryogenic temperature freezing. In the process of developing various technical solutions in order to achieve and maintain cryogenic temperatures, designed the compressor specifically for this use. is a leading manufacturer of cryogenic temperature freezers.

- **Cryogenic Preservation Application**
- Cancer Research: Tumor Cells
- Blood banking: HLA, Red Cells
- Bone Marrow Preservation: Skin, Bone, heart valves, Corneas, Musculoskeletal Tissues
- Microbiology: Viruses, Bacteria, Cell Culture
- HLA: (Lymphocytes) Organ Transplant
- IVF: (Embryo, Sperm) Human Infertility
- Sperm & Fertilized Ovum (Bull, Goat, horse, Pig, Chicken) Preservation
- Plant Cell Preservation
- Monoclonal Antibody Preservation
- Pharmaceutical: Cultures
- Repositories: Cell Cultures

Product Features :

Model No.	1180-SFR-151	1180-SFR-152	And More
Temperature Range	-125 to -150 degrees C (1 degrees C increment)		
Maximum Cooling Performance	-150 degrees C (Ambient Temp. +30 degrees C)		
Effective Capacity	100 liters	200 Liters	As required
Maximum Cooling Performance	-150 degrees C (Ambient Temp. +30 degrees C)		
*Varying Capacity option on demand.			
Exterior Finish	Galvanized Sheet finished with bacteria resistant coating		
Interior Finish	S.S. interiors to give better life and makes cleaning easy providing hygienic conditions & great sturdiness.		
Cabinet Insulation	Safe, high density, non-settling & Thick polyurethane insulation		
Access port	40mm Diameter		
Castors	4		
Compressor	Imported Heavy duty Double compressor. The compressor is distinguished by its excellent performance, low noise level and minimal vibration.		
Refrigerant	Non-CFC & Non-HCFC environmental friendly refrigerant.		
Temperature Control	Microprocessor based Control panel.		
Alarm System	Audible and visual alarms in case of power failure, high or low temperature alarm system.		
Power Supply	220 volts, 50 Hz / 110 volts, 60Hz.		