



# **CRYOSECT**<sup>®</sup> CRYOSECT<sup>®</sup>

## Benchttop cryostat for routine histology



# CRYOSECT® CRYOSECT®

The Seward Cryosect® has all the features and functions of a floor standing cryostat for the routine histology laboratory in a compact bench mounted instrument.

The Cryosect® is designed for use in routine histology laboratories. Despite its compact design it has a spacious practical freezing chamber and robust full rotary microtome. It is simple to operate and maintain requiring the minimum of training and experience to set up and prepare sections.

The specification fits all your practical sectioning requirements

➤ **Full rotary microtome giving section thickness from 1-25um in increments from 1-10 in 1um and 10-25 in 5um increments.**

➤ **5 x 30mm specimen holders supplied with the Cryosect®.**

➤ **52mm x 25mm stroke.**

➤ **Cooling capacity to -35C.**

➤ **6 position sample freezing station.**

➤ **Adjustable specimen orientation.**

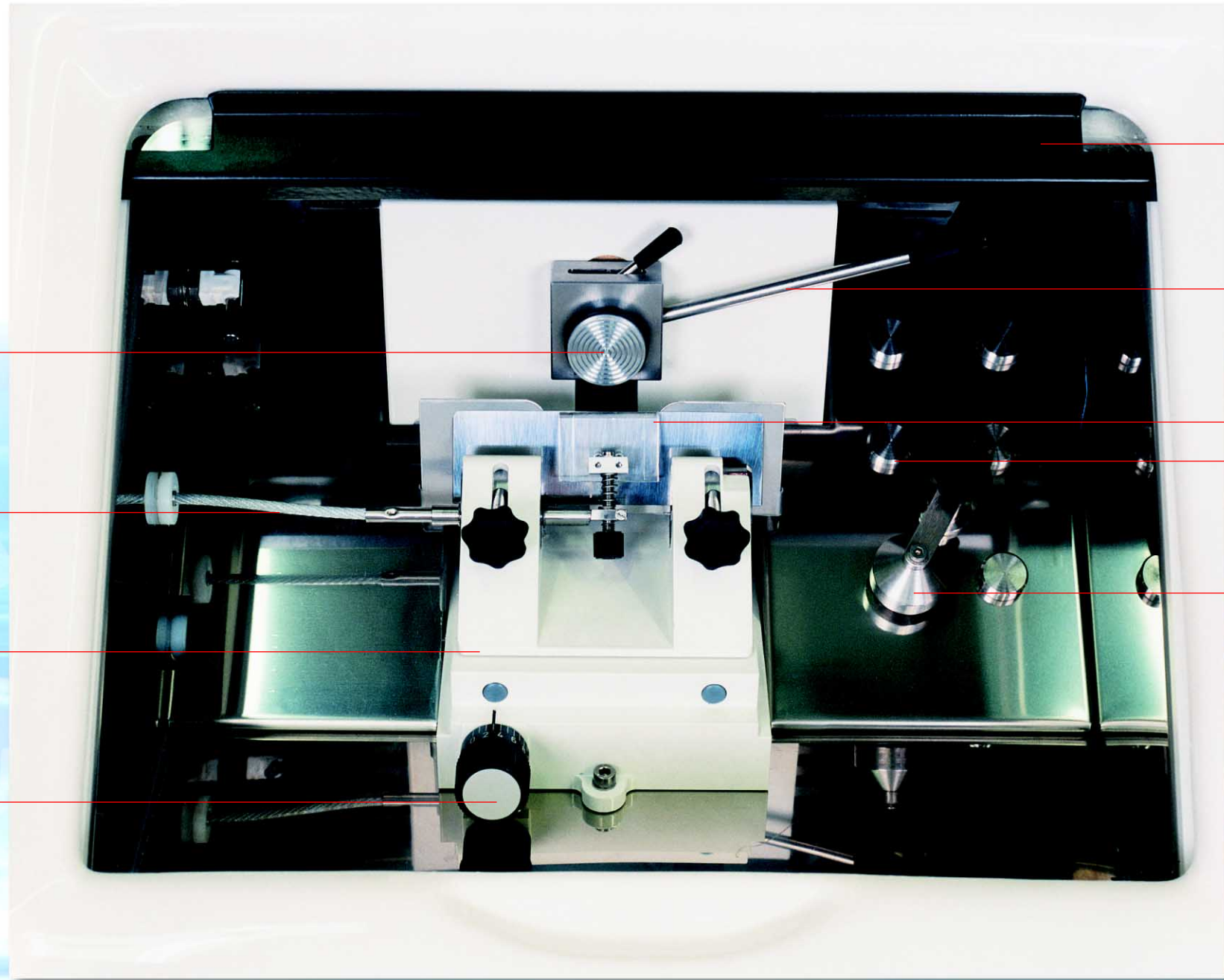
➤ **Coarse advance.**

Specimen holder (30mm)

Anti roll plate position adjustment  
(Externally controlled)

Coarse advance  
(Externally controlled)

Section thickness adjustment



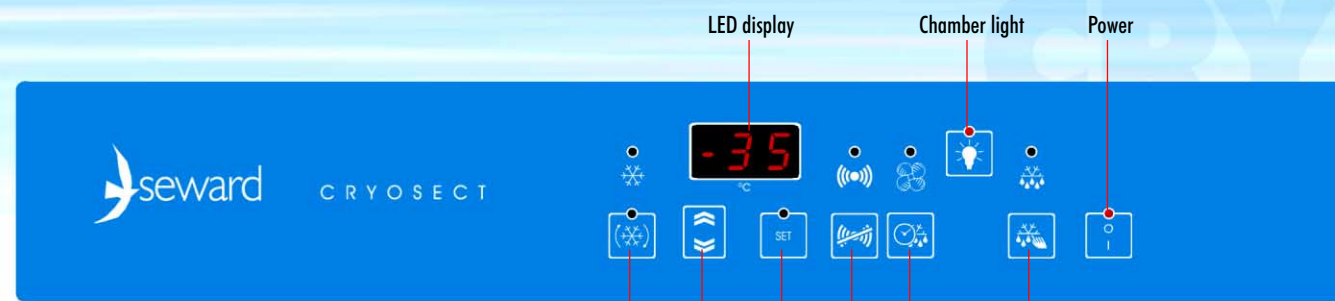
Sliding viewing window with automatic demister

Sample orientation adjustment XY axis 8° Z axis 360°

Antiroll plate

6 position freezing station

Heat sink



Disable automatic defrost

Setting adjustment

Security key for changing settings

LED display

Chamber light

Power

Disable temperature alarm

Manual defrost

Set time



# technical

## Cryosect®

➤ **The Cryosect® uses an environmentally friendly alternative to CFC.**

➤ **Compact and convenient.**

➤ **Automatic defrost cycle.**

The required foot print for the Cryosect® is 502mm by 580mm which is ideal for a standard bench width. The Cryosect® has a desktop front which overhangs the edge of the bench allowing the operator comfortable access to the freezing chamber while standing or sitting in front of it. The sliding freezing chamber lid is double glazed and has a demister which is in constant operation so the operator has a clear view of the blade and sample at all times. The freezing chamber's depth minimizes temperature fluctuation when the lid is opened.

The Cryosect® has an automatic defrost which activates at midnight unless overridden. The defrost cycle can be factory set to begin at any selected time. Manual defrost is also available.

The thermostat, which determines the chamber temperature, is set at the same height inside the chamber as the point at which the sample contacts the knife blade. This ensures the displayed temperature is also the sample temperature at the point of cutting.

## Microtome

➤ **Full rotary microtome**

➤ **Re-useable or disposable blades**

➤ **Robust designed for low temperatures**

The Cryosect® is equipped with a full rotary microtome, which means that sections are cut of an even thickness. The compact microtome design is achieved by having the knife advancing towards the sample. This reduces the amount of wasted space inside the freezing

chamber giving quicker cooling and better temperature stability.

The microtome is of tough construction designed specifically for use at low temperatures. The full rotary microtome action is robust enough to cut even very hard specimens such as decalcified bone.

The microtome can be removed from the freezing chamber for maintenance and cleaning by removing a single fastening bolt and the chamber can be completely stripped and reassembled in a few minutes for cleaning.

The microtome can be setup to take re-useable tungsten carbide blades or disposable blades. Seward Limited provides a re-useable blade re-sharpening program for our customers.

Coarse adjustment, cutting and antiroll plate controls are accessible from outside the freezing chamber. This minimizes the number of times the user must access the freezing chamber in routine operation reducing the build up of frost.

## Freezing Centre

➤ **6 position freezing centre**

➤ **Heat sink**

Samples can be mounted and frozen in the chamber rapidly and hygienically and be ready for sectioning in minutes. The freezing centre has 6 positions allowing several samples to be prepared at the same time and for samples to be stored temporarily in the chamber.

The 30mm sample holder mounted in the freezing centre gives good surface

contact and the mass of the sample holder conducts the temperature rapidly. A swivel-mounted heat sink can be placed on top of the sample speeding up the cooling process and in thicker samples transmits the chamber temperature to the full thickness rapidly and evenly.

The sample holder has a rubber ring around its circumference so it can be handled without gloves even at -35C.

## Controls and settings

➤ **Sealed membrane**

➤ **Settings protected**

The settings are easily adjustable and are all protected against accidental adjustment.

The control panel is mounted on the front of the Cryosect® above the chamber for easy access and consists of an LED display and push button controls protected against spillage by a sealed membrane. This also makes the Cryosect® simple to clean and disinfect should the operator contaminate the control panel during sample preparation.

Seward Limited provides a 3 year warranty on the microtome, electronics and mechanics of the Cryosect® and 12 months on the refrigeration system giving our customers confidence in the quality and reliability of the product. The modular design of the refrigeration and electronics means that if repairs are necessary downtime on the unit is minimal. Our service representatives simply replace modules.

Product	Description	Dimensions (dxwxh) mm	Weight	Product Code
Cryosect®	Cryosect®, microtome, starter pack of blade/blades, brush, microtome oil, OCT and 5 specimen holders	734 x 580 x 510	67kg	5000/000/*

\*Please specify voltage and re-useable/disposable knife configuration. Accessories list available on request

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