

SOLID STATE FREEZER COOLING STAGES

INTRODUCTION



For some sectioning work it is necessary to cool a specimen below room temperature. The Bright Solid State Freezer incorporates a Peltier device cooling stage and will permit specimen cooling from ambient to -25°C or lower, depending on conditions. The equipment consists of a control unit and a cooling stage, the cooling stage being available in two sizes - 30mm x 30mm or 40mm x 40mm. Primarily designed for use with the Bright 5040 rotary and the Bright 8000 base sledge microtomes, the Solid State Freezer may be used with other rotary and sledge microtomes.

The Solid State Freezer fits to the microtome in place of the normal specimen holder. It has a water inlet, a water outlet and an electrical connection to the control unit. The control unit permits temperature control but does not measure temperature directly,

instead a reading of the current passed to the Peltier device is indicated on the front panel. The control unit also has a built in safety device, which detects low water flow. After sectioning, the specimen is quick and easy to remove.

FEATURES AND BENEFITS

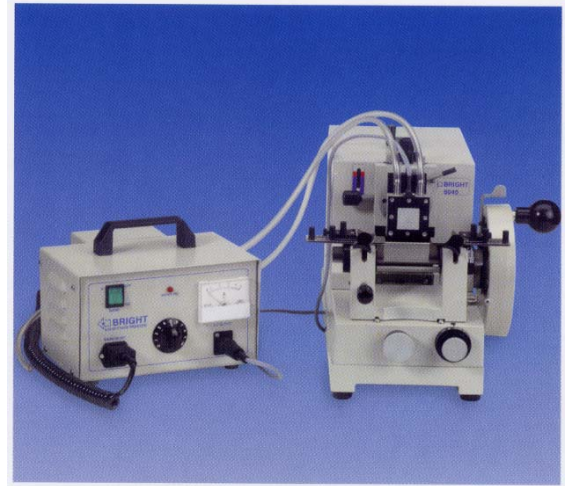
- temperature control to -25°C
- easy to use
- quick and easy removal of specimen
- low water pressure detector
- two stage sizes are available
- standard accessories include:
 - Cryo-M-Bed, Cryospray 134, spare set of fuses, operating manual



Pictured above the Solid State Freezer is connected to the Bright 8000 Retracting Base Sledge Microtome and below is connected to the Bright 5040 Rotary Retracting Microtome.

SPECIFICATION

- Cooling power • 21 watts
- Lowest temperature • -32°C
- Cooling rate (from switch on) • reaches -20°C after approx 55 seconds
- Control unit dimensions • 260 x 145 x 230mm
- Stage dimensions (30 x 30mm) • 54 x 54 x 24mm
- Stage dimensions (40 x 40mm) • 63 x 63 x 24mm
- Net weight • 10kg
- Gross weight • 15kg
- Shipping volume • 0.158m³
- Packing dimensions • H580 x D680 x W400mm



ORDERING INFORMATION

Order Code	Description
53023-01	Solid State Freezer, 30 x 30mm, for 220/240V, 50/60Hz
53023-02	Solid State Freezer, 30 x 30mm, for 110/115V, 50/60Hz
53024-01	Solid State Freezer, 40 x 40mm, for 220/240V, 50/60Hz
53024-02	Solid State Freezer, 40 x 40mm, for 110/115V, 50/60Hz

The Bright Instrument Company has a policy of constantly seeking improvements to its products and therefore reserves the right to change specifications without notice and to incorporate such changes as convenient during manufacture.