

# FREEZING STAGES FOR MICROTOMES

## *BFS-40MPA Temperature Controlled Freezing Stage for Microtomes*

- Frozen tissue sections from most microtomes
- Fast freezing preserves cell detail
- Freeze to temperatures as low as -40°C
- Temperature adjustable for optimum cutting
- Quick thaw for easy cleanup
- No CO<sub>2</sub> needed-minimal cost to run



*BFS-40MPA System, includes controller and stage*

Physitemp's new addition to their line of temperature controlled freezing stages incorporates several innovative features. The controller is designed around a new generation of switching power supplies which are smaller and lighter than the older BFS supplies. The supplies are overated 100% to ensure cool operation and continuous service.

Safety features include overtemperature alarm with power shut down in the event of inadequate flow of cooling water or overuse of the thaw feature.

- Controller incorporates fan assisted internal cooling to maintain low internal component temperatures
  - Continuous display of both set and run temperatures
  - Simple digital temperature control set-up
  - Auxiliary switched AC output for accessories (see options).
  - P.I.D. microprocessor based temperature controller with autotuning feature and feedback sensor breakage alarm.
- Adjustable feet provide convenient viewing angle for display.

Technical features include:

- 110 to 230V AC operation
- Temperature control to within 0.5°C in the range of -40°C to ambient.
- Thaw switch to quickly release frozen samples.

### **Innovative New Stage Design**

BFS-40MPA stage design incorporates several innovative features.

- An etched grid on top plate promotes better adhesion of frozen sample.
- Thinner stage design reduces the need for a knife raising block.
- Waterways inside the stage are redesigned to create a single passage to improve heat transfer and reduce potential for blockage.
- Redesigned mounting hardware facilitates the direct attachment of blocks or posts to the underside of the stage and a new adapter plate system allows mounting on a variety of different microtomes.

### **Optional Accessories:**

**PTU-3 Pump and Tank Unit** - a closed loop water system for installations where an external water source is not available - see page 21 in catalog for specifications

### **WF-1- Inline Sediment Water Filter**

Physitemp Instruments recommends the use of the WF-1 Sediment Filter with all BFS and TS series stages that are either directly connected to an unfiltered tap water supply or are using a PTU-3 pump and Tank Unit system filled with unfiltered tap water. If the

PTU-3 is used with distilled water, sediment in the reservoir should be minimal and the WF-1 may not be required. See *WF-1 Data sheet* for detailed specifications

