

PE120 and PE120XY Peltier Systems

The PE120 systems provide a turnkey solution with 0.1C temperature stability and control in the range of -25° to 120°C without requiring liquid nitrogen for cooling. There are two major versions of this versatile instrument, for upright and inverted microscopy. With the specimens mounted on a standard microscope slide the PE120 is designed for ease-of-use and high sample through-put.

Features and Benefits

The PE120 stage is a simple to use thermoelectrically cooled stage that accurately controls the temperature of microscope slides to $\pm 0.1\text{C}$ from -25° to 120°C . As a low cost system this stage is ideally suited to basic temperature application work.

The PE120-XY is based on the standard PE120 but designed to fit into the adapter plate recess of many types of XY microscope stages including those of Marzhauser and Prior. The temperature controlled plate is built onto a larger 160x110mm adapter plate which simply drops into the recess of the XY table.

Options

For Upright Microscopes

General Purpose

10021 - PE120 System — Baseplate 150mm x 105mm with the optical axis 87mm from the rear 105mm edge (81mm from the centres of the slide-holder holes).

10092 — PE120-XY System — To fit XY tables with 160mm x 110mm recess, or can be used on the top surface of XY tables without recess, with the optical axis at 81.9mm from rear edge of the PE120 stage (74mm from the centres of the slide-holder holes).

Nikon

10078 PE120-NK System — Built into Nikon microscope XY table.

Olympus

10065 PE120-BX System — Built into Olympus U-SVRB microscope XY table.

Zeiss

10021 PE120 System for Zeiss Axiolmager — Baseplate 150mm x 105mm with the optical axis 87mm from the rear 105mm edge (81mm from the centres of the slideholder holes).

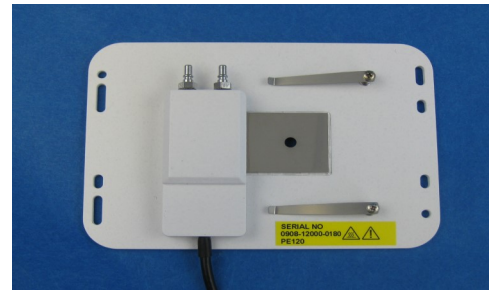
10079 PE-ZE120 System — Built into Zeiss XY table (Zeiss part 1063-835).

For Inverted Microscopes

General Purpose

PE120-XY System — To fit XY tables with 160mm x 110mm recess, or can be used on the top surface of XY tables without recess, with the optical axis at 81.9mm from rear edge of the PE120 stage (74mm from the centres of the slide-holder holes).

**Temperature range achievable dependent on the temperature of the cooling water.*



The PE120 heating and freezing stage

All Peltier stages are supplied with the PE96 controller and ECP water circulator

PE96 Controller

The PE96-LinkPad controller is used to quickly program a temperature profile by simply tapping the onscreen controls. Upgrading the system by adding the intuitive LINK software enables full PC control of the temperature, including features such as multiple temperature ramp profiles, real time graphing and data export.

ECP Water Pump

Dependable, quiet and compact the ECP water circulator is used to keep the PE120 peltier junction at the appropriate working temperature. Easy to use with few connections, quick fill reservoir and simple priming button, the ECP forms a closed system.

Specifications

- Sample area 35 x 32mm
- 5mm aperture
- Heating/Cooling rate 0.1 to 20°C/min
- Temperature Range -25* to 120°C
- Control and Stability +/- 0.1°C
- Pt100 temperature sensor
- LCD touch screen control
- DC power control
- RS232 connectivity
- Minimum objective working distance 0.1mm
- Minimum condenser working distance 5mm
- PE120 Stage size 105 x 150mm
- PE120XY stage size 160 x 110mm

Top — PE120 stage dimensions.

Bottom — PE120XY dimensions

**Temperature range achievable dependent on the temperature of the cooling water.*

