

Pipette Heater

Complete pipette temperature accuracy for critical testing.



Overview

- Thin, small and flexible
- Can wrap entirely around pipettes
- Uniform heat transfer to maintain critical temperatures
- Specific wattage profiling for increased repeatability
- Fast warm-up time
- Value-add assembly for turnkey installation is available
- Can be customized to fit any application
- Optional integrated sensors, controllers, and flex circuits
- Unparallel reliability and accuracy

Application

The pipette heater maintains an accurate temperature of the critical fluids in a pipette during the fluid transfer in a test system. The pipettes are then able to keep the fluids at the desired testing temperature. This feature allows for precision mixing and accurate reading of biological chemistry.

The thin profile of the heater is ideal for saving space and weight. The fast warm-up time and uniform thermal distribution reduce the need for additional strip heaters, fans and supporting framework within the system.

Specifications

Temperature range: -45 to 150°C

Heating element: Etched-foil

Insulation material: Polyimide film/acrylic

Resistance tolerance: ±10% standard (down to ±5% is possible)

Dielectric strength: 500 volts

Operating voltage: Dependant on application; typically 24 VDC

Power rating: up to 20 watts/in² (3.1 watts/cm²)

Minimum bend radius: 0.030" (0.8mm)

Power terminations: leadwires, solder pads or flex lead

Overall thickness: 0.008" (0.2mm) over element, 0.050" (1.3mm) over leads

About Minco

Minco has over 30 years experience with thermal systems for the Medical Diagnostics industry. Minco designs, manufactures and markets critical components for critical applications by providing expert engineering services that help customers plan and integrate Minco components into their products, to ensure the highest level of reliability.

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