

Warm and Cooled Stage Inserts



Warm Inserted Stage

This warm inserted stage is designed to reliably maintain the temperature of a petri dish or slide on a microscope stage from ambient to 50°C to within $\pm 0.1^\circ\text{C}$. The system uses a unique 24 heating element array to maintain the temperature of the stage.

The warm inserted stages are designed to fit into the stages of most inverted and standard microscopes that have circular inserts.

For maximum effectiveness when working with petri dishes with raised feet or rim, use the insert with a raised central section. This provides direct contact with the dish. For flat dishes or slides, use the insert with a flat central section.

- Heated circular-stage-insert
- Accurate, reliable temperature controller can achieve $\pm 0.1^\circ\text{C}$ accuracy
- 24 heating elements arranged in parallel for very high reliability
- High thermal conductivity material for uniform temperature distribution
- Direct contact between heated insert surface and petri dish/slide
- All solid-state electronics for long-life
- Custom sizes available

Cooled Inserted Stage

The cooled inserted stage is designed to reliably maintain the temperature of a petri dish or slide on a microscope stage from ambient to 10°C to within $\pm 0.3^\circ\text{C}$. The system uses a unique peltier 'heat pump' technology maintain a temperature of the stage. Heat is removed from the cooled insert stage by a water cooled heat exchanger that requires a water supply with a flow rate of at least 8 ml/min. The cooled-inserted-stages are designed to fit into the stages of most inverted and standard microscopes.

- Cooled circular-stage insert
- Accurate, reliable temperature control using peltier 'heat pump' technology
- Controller can be tuned to achieve $\pm 0.3^\circ\text{C}$ from ambient down to 10°C
- High thermal conductivity material for uniform temperature distribution
- Direct contact between heated insert surface and petri dish/slide
- All solid-state electronics for long-life
- Custom sizes available

Specifications

Temperature Range	Ambient to 50°C
Accuracy	$\pm 0.1^\circ\text{C}$
Control Box Dimensions	75 x 200 x 140 mm (2.3 x 7.9 x 5.5 in) (H x W x D)
Weight	0.65 kg (1.4 kg)
Power	115/230 VAC, 50/60 Hz
Warm Inserted Stage:	
Thickness	3 mm thick
OD	Dependent on microscope, must specify when placing order
Weight	0.1 kg (3.5 oz)

Catalog No.	Product
CGS 8737.75	Warm Inserted Stage and Controller with Raised Center Section
CGS 8738.75	Warm Inserted Stage and Controller with Flat Center Section

Specifications

Temperature Range	Ambient to 10°C
Accuracy	$\pm 0.1^\circ\text{C}$
Controller Dimensions	75 x 200 x 140 mm (2.3 x 7.9 x 5.5 in), H x W x D
Weight	0.65 kg (1.4 lb)
Power	115/230 VAC, 50/60 Hz
Cooled Inserted Stage:	
Thickness	3 mm thick
OD	Dependent on microscope, must specify when placing order
Weight	0.1 kg (3.5 oz)

Catalog No.	Product
CGS 8739.75	Cooled Inserted Stage and Controller with Raised Center Section
CGS 8740.75	Cooled Inserted Stage and Controller with Flat Center Section