# MicroscopeHeaters.Com KEEPING CELLS ALIVE A DIGITAL PIXEL BRAND

# Microscope Incubation Systems Does your Microscope Incubation System Shake, Rattle and Roll?

# **Advanced Vibration Free Heater Technology**

# **Quantifiable Benefits**

Our powerful internal heaters gently warm the sample area from both sides of the incubation system without any vibration at all!

# Little or No Air Flow Perturbation to the sample area- ideal for precise measurement methods:

This technology allows the researcher to perform delicate experiments on living cells and organisms without perturbing or stressing the sample, or the sample area!

Microinjection, Cell wall strength, AFM, optical or magnetic Tweezer experiments all benefit from our heating technology!

# Microscope Core Facilities Can Benefit -Extended Temperature Range - Zebrafish, Drosophila, Yeast, Bacteria More Applications - More Users!

Conventional fan based heating systems, struggle to control temperature in the 24-30°C temperature range. Our systems can control from 1°C above ambient! This allows you to support more researchers using many non-mammalian model systems, such Zebrafish, Dictyostelium, Drosophila, Yeast and Bacteria.

# **Reduced Focus Drift Issues**

Fan systems blow hot air across the sample area at 40-50°C. This can cause thermal drift in your microscope system.

### **Enhanced Microscope Access**

No large bulky pipes means that our system provides the greatest possible access to your microscope, for system peripherals. Now and in the Future!

**Enhanced Laboratory Environment** Our systems operate silently and generate NO noise.

# **Green Technology - 10W power consumption Warm the Microscope NOT the Planet**

Out internal heaters concentrate on warming the microscope, NOT the laboratory. They also do not introduce dirty air into the Microscope environment

Oxford Heidelberg Cambridge Marseille Paris





# **Other Cell Viability Products**

#### **CO<sub>2</sub> Gas Controller Systems**

Microprocessor controlled 0-20% CO<sub>2</sub> Range Internal Variable Pump/Flow Control

#### **Stage Top Heater Systems**

Independent control over the base and glass cover Available with microscope Objective Heater

Microscope Objective Heater System Flexible Objective Heating Band

#### **Heater/Cooler Systems**

Stage Top Heater/Cooler System provides precise control in the 10°C-50°C temperature range Ideal for conducting precise temperature Xenopus, Drosophila, Zebrafish experiments.

#### Sample Types

Zebrafish Dictyostelium Drosophila C.Elegans Yeast Bacterial Research Mammalian Cells 22-28°C 20-24°C 20-30°C 20-30°C 26-35°C 20-42°C 37°C

\*Assuming a laboratory temperature of 18-19°C

#### **Flexible Chamber Options**

Clear, Smoke, Matt Black or Matt Black with Clear Front

#### **Full CAD Based Design**

Accurate models of all the major microscopes and peripherals provide precise and accurate fit to your microscope configuration. Flexible Door Position Options.

#### **Technical and Performance**

Heating Method Temperature Sensor Temperature Range Temperature Stability Thermal Homogeneity Power Consumption Internal high performance proprietary thermal elements PT100 or Thermocouple 1°C above ambient to 42°C +-0.2°C +-0.2°C Across the four quadrants of a sample holder on motorised stage Typically less then 10W at equilibrium 37°C

#### MicroscopeHeaters.Com

Digital Pixel Limited Sussex Innovation Centre Science Park Square Brighton BN1 9SB Tel: 00 44 (0)1273 502 176

support@digitalpixel.co.uk

### Selection of Installed Systems

Nikon Ti-E Crest Olympus IX83 TIRF Nikon TI-2 Crest Confocal Zeiss 880 Airyscan Nikon Ti-E Yokogawa Nikon TI-E Aurox Confocal ASI RAMM Abberior Olympus IX83 Nikon Ti-E Cairn RS Super Resolution PicoQuant Olympus IX83 Leica DMi8 SP5 Nikon Ti-2 Light Sheet Nikon Super Resolution Nikon Ti-E Olympus IX83 Birmingham Oxford Uppsala Sussex Dusseldorf Oxford UCL Heidelberg LMB Cambridge San Diego Exeter Cambridge Marseille Marburg Toronto

Nikon Zeiss Olympus Leica JPK-AFM JPK-AFM DicoQuant orietary thermal elements