

WORLD PRECISION **INSTRUMENTS**



Gas Exhaust

Water Reservoir Filling Por Water Reservoir Overflow Port Gas Intake

Main Interface to ECU

Thumb Hold (for lid removal)

Gas In Port – Temperature Sensor

STAGETOP ENVIRONMENT (CLOSED)



ENVIRONMENT CONTROL UNIT (FRONT)



ENVIRONMENT CONTROL UNIT (BACK)



Gas Out Vent Perfusion Ports

The ECU is positioned on an inverted microscope. The ECU system consist of the stagetop environment base unit and the electronic controller.

For short term or long term studies of living cell cultures under a microscope or for time lapse video research, a microscope stagetop incubator is essential.

Perfect for Live Cell Imaging, STEV (the stagetop environmental control system) is a heated, humidified, compact environmental case that houses your culture wells and fits on a microscope stage. The STEV can be used with 35mm well plates by simply replacing the seal on the bottom of the stagetop environment case.

This system offers precision control of temperature, CO₂ and O₂. The system is flexible and easy to configure for a variety of experimental conditions.

The system includes the Environmental Control Unit (ECU) electronics which use four programmable loops to control the temperatures of the case and the lid, CO₂ and O₂ within the environmental case, and airflow within the incubator.

Control System Configurations

ECU-H5	Controller with heat, premix gas
ECU-HC	Controller with CO ₂ and heat
ECU-HOC	Controller with CO ₂ and O ₂

Features

- Four programmable digital control loops:
 - Independent incubator base temperature PID control • with ±0.1°C precision
 - Independent incubator lid temperature PID control with ±0.1°C precision
 - CO₂ digital PID control with ±0.1% precision
 - Airflow digital PID control from 0-900 SCCM
- Electronic flow meter
- Programmable alarm for out of tolerance condition on all four channels

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Stagetop Environmental Control Control temperature and CO₂ in a microscope stagetop environment



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