

UNO Stage Top Incubator



Temperature, CO₂ and Humidity.
Performance made simple.



T, Humidity and CO₂ with a modern controller

Stage top chamber – models available for any XY stage

Advanced mechanical and thermal design of the incubating chambers delivers superior performance and great operation flexibility.

- Models for any XY and piezo stage
- Models for inverted and upright microscopes
- Interchangeable inserts - magnetic
- Sliding lid allows easy access to the sample
- Optional lid for Koehler illumination and micro injection.
- Built-in perfusion holes for insertion of tubing



Humidity module with heated tube

Proper gas humidification is essential to maintain physiological conditions throughout the experiment. Indeed, poor humidification causes medium evaporation, affecting osmotic pressure of the culture medium and cell viability. The UNO-stage top incubator employs a powerful humidifier approaching 90% relative humidity. Humidified gas is delivered to the sample through a heated and insulated tube. An algorithm accounting for room temperature variations automatically adjusts the tube's temperature.



UNO – Stage top incubator

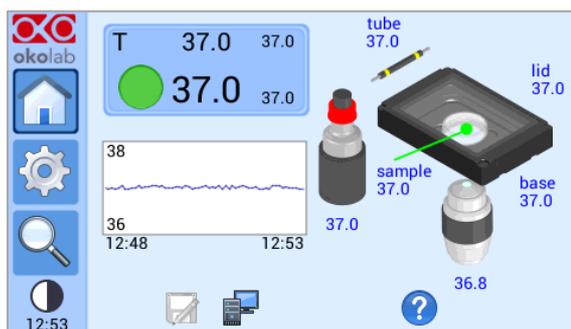
Controller

UNO-stage top incubator ensures sample temperature with the highest accuracy by controlling up to 6 integrated channels with a state of the art multichannel controller.



Features

- Compatible with any Okolab Stage Top Chamber
- Objective Heater with smart calibration routines
- On board memory for data logging
- 4.3" Touch Screen Interface
- Includes an External T-Sensor for sample feed-back operation
- Integrated in third party software: NIS Elements, LAS X 2.0, ZEN black edition, Metamorph, Micromanager
- TTL compatible version is available



CO₂ module (100% CO₂ + Background Air) or PREMIXED

UNO-stage top incubator can employ 100% CO₂ + Background Air with the addition of the gas mixer 2GF-MIXER and AIR-PUMP (package UNO-T-H-CO₂). It can employ Premixed Gas with the addition of the pre-calibrated-flow regulator, FR (package UNO-T-H-PREMIXED).

100% CO₂ + Background Air



Premixed gas



Technical Specifications

Temperature range	From room temperature to 50°C
Temperature accuracy	± 0.1°C in sample feedback mode ± 0.3°C in chamber feedback mode, if room temperature remains within ± 1°C
Manual Gas Mixer resolution	1 %
Air Pump, outlet pressure	0.3 atm.
Humidity efficiency	90% ca.
Controller dimensions	103 x 130 x 59 mm



Controller Package Codes

UNO-T	Temperature only
UNO-T-H-PREMIXED	Temperature, Humidity, Premixed Gas
UNO-T-H-CO2	Temperature, Humidity, Manual Gas 100%CO2 - Air Mixer, Air Pump

All packages require the selection of one Stage Top Chamber and are compatible with Okolab Objective Collars.

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