

BRICK

Technical Data

Control Range Flow : 3-120 slph
CO₂ : 1-15 %
O₂ : 0.5-25 % (optional)
O₂ : 2-60 % (optional)

Sensors Flow : thermal mass flow
CO₂ : IR-spectroscopic with
pressure
compensation
O₂ : zirconia solid
electrolyte

Input Air : 0.8-1 bar
CO₂ : 5-7 bar*
O₂ : 5-7 bar*
N₂ : 5-7 bar*

*lower pressure input available

Timer Programmable shut-off up
to 99 hrs.

Communication RS 232C serial interface

Voltage 12 VDC, 90-250 VAC power
supply included

Consumption 40 W max.

Compatibility Upgrade for all CUBE&BOX
temperature control systems

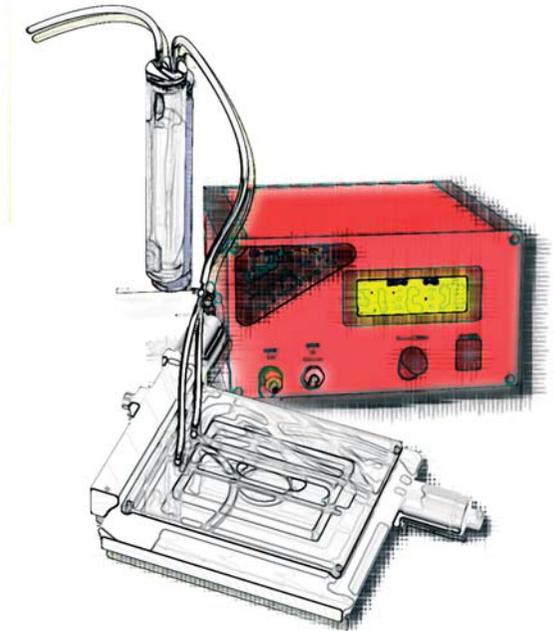
Options O₂ regulation
Auxiliary output

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LIFE IMAGING SERVICES

BRICK & Co.



Gas & Humidity Control for Live Imaging

Specimens in bicarbonate-containing culture media in contact with a gas phase must be kept under the correct CO₂ concentration to prevent loss of bicarbonate and the resulting basification of the medium.

CO₂, (AND O₂) REGULATION

The BRICK offers a convenient and flexible means to mix air and CO₂ to the required concentration and flow. O₂ regulation is available optionally if your experiments require a non-standard oxygen level.



Humidification of the gas is required to prevent evaporation of water from the culture medium and the resulting rise in osmolarity.

The humidifier column is mounted in the BOX (temperature-controlled microscope enclosure)

EVAPORATION CONTROL

and filled with distilled water. The gas is warmed up and humidified by bubbling it through a micro-filter candle.

Exposing the entire microscope to high humidity may result in damage to electronics, optics, and mechanics. This necessitates the use of stage-top

incubators to restrict the humid gas to the sample area. Stage-top incubators are designed specifically for different types of microscopes stages, sample formats and applications. Closed stage incubators

STAGE-TOP INCUBATION

have low gas consumption and can also be used for large sample formats such as standard multi-well plates.

Semi-open stage-top incubators allow access to the



specimen, e.g. for microinjection or electrophysiology.