

Active Humidity Control

Installation:

Connect the inlet to the mixed gas flow regulator (BRICK or Digital Flow Meter or Metering Valve) using the supplied tubing and adapters.

Connect the outlet to one side of the humidifier sensor capsule and the other side to the Stage-Top Incubator or Ludin chamber or Manifold Bottle using the supplied tubing and adapters.

Connect the 3.5mm-Cinch-connector of the heating element and the 2.5mm-Cinch-connector of the sensor to the corresponding female plugs at the rear side of the BRICK.

Operation:

Before inserting the heating element fill the humidifier column with distilled water. The use of a spritzing bottle is recommended to avoid spillage. Insert the heating element with its silicone collar firmly.

Re-fill with distilled water as required. Regularly exchange the water (recommendation: weekly).

See the BRICK manual for adjustment of gas humidity.

Remarks:

Microbial contamination is not usually a problem since distilled water and light-starved environments (microscopy room) do not support growth. If contamination has occurred, sterilize the Humidifier Column by rinsing with 70% EtOH. Subsequently wash with water (do not expose to EtOH for prolonged periods of time). The use of anti-microbial agents is not recommended since they can be transported as aerosol and end up in the specimen.

Water is an efficient CO₂ buffer. Thus equilibration of the Humidifier Column by bubbling it with the desired CO₂ concentration for several minutes before the experiment may be required.

