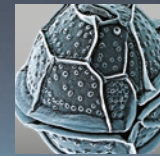
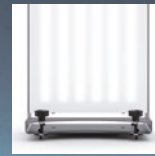
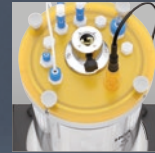


IKA

analytical equipment
designed for scientists

EN | ALGAEMASTER 10 Photobioreactor



Photobioreactor

The photobioreactor Algaemaster 10 is the perfect equipment supporting scientists to find and re-create the ideal conditions for growing phototrophic organisms such as microalgae. These are increasingly of interest for translational science; e.g. drug discovery in the pharmaceutical industry.

With our ocean water resistant and autoclavable system you are more than well prepared for your individual research activities.

Controller

It provides all features necessary for the growing process of the organisms. With its slim design, it can sit right next to the reactor on the bench allowing for easy operation.



LID

The customizable lid can be autoclaved as it is made of Ultem® thermoplastic that has been tested for durability. Sensors are inserted through the lid using different receptacles.

1 | PT 100 temperature sensor
ensures proper climate conditions

2 | Adaptors
6, 8, and 12mm openings, 1/2" NPT threaded

3 | Lid
made of autoclavable Ultem® thermoplastic

4 | Motor coupling
stirring with a speed range of 10 – 100 rpm

5 | pH sensor
to monitor ambient changes

6 | LED positioning
adaptable to requirements

7 | Base plate
for a secure stand



1 2 5



3



4



10 L REACTOR VESSEL

The 10 liter jacketed reactor vessel has quick fit connectors which make it simple to hook up a thermostat. When using a temperature sensor or pH sensor a minimum of six liters is required.

1 | Stirring element
PTFE-coated with two height-adjustable propellers

2 | Sparger
for adding gas e.g. CO₂

3 | Jacketed reactor vessel
provides quick fit connectors to easily attach a thermostat



1



3

min. 6 l
max. 10 l

4 | LED light panels
for individual and variable lighting conditions



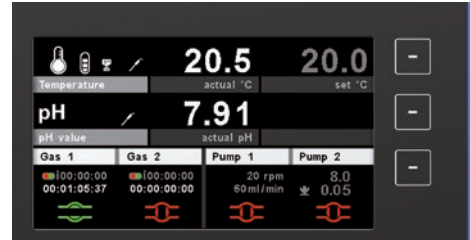
CONTROLLER FRONTSIDE



All displays, pumps and interfaces are easily accessible from all angles of the controller (front, top, side and rear). It provides all features to create perfect growing conditions for microalgae.

1 | Two large displays

easy monitoring of all software settings during trial run period



2 | Two gas flow meters

manually adjustable for CO₂ or air shut on/off

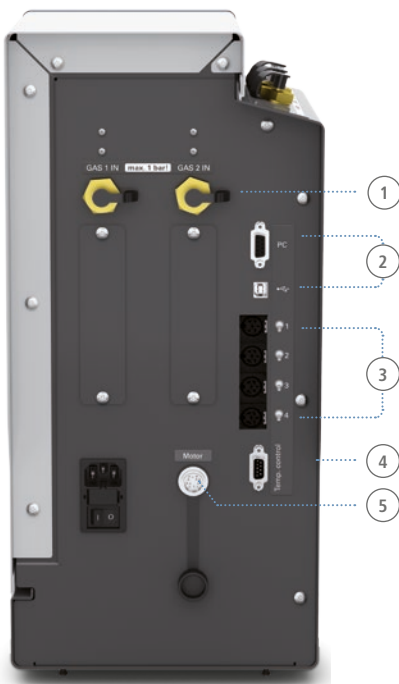
3 | Two peristaltic pumps

adding nutrients or other liquids such as ocean water or when diluting the batch

4 | USB port

exporting trial run data

CONTROLLER REAR



1 | 2x gas-in-connectors

max. 1bar

2 | RS 232 / USB port

connecting to a PC

3 | 4x connectors

attaching up to four LED light panels

4 | RS 232

connecting an IKA thermostat for enhanced operation

5 | Motor control interface

CONTROLLER TOP

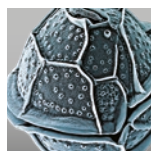
1 | 2x gas-out-connectors

2 | pH sensor interface

3 | PT 100 interface



Contact
sales@ika.de
for your free
demo



IKA

Pyrodictum,
MARLBOROUGH University
of North Carolina,
Wilmington



201703_Algaemaster_Flyer_EN_4500060008

KEY FEATURES IKA ALGAEMASTER 10

- > Ocean water resistant and completely autoclavable lid and vessel
- > Metal-free components for sensitive bioactive materials
- > Material touching the product: borosilicate glass, PTFE, Ultem®
- > Computerized control of lighting, temperature, stirring, pH and dosing of liquid or gas
- > Customizable lid with nine receptacles
- > Effortless data collection via USB drive

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