



KENTRON
MICROBIOLOGY



**BIO
MAX**

Simplify your
microbiology work!

Create simply, swift, and efficient your own reduced oxygen-atmosphere into an anaerobic jar (microaerophilic, anaerobic or capnophilic) for culturing oxygen-sensitive microorganism with one push button.

The BioMax is fast, simple and efficient

FAST

Whether you want an anaerobic or microaerophilic atmosphere in one or more anaerobic jars, the BioMax creates them quickly and efficiently. Within minutes the anaerobic environment is created by evacuating and replacement of the atmosphere with anaerobic gas mixture (85%N²-10%CO²- 5%H²) or other gas mixtures.

SIMPLE

The operation of the touchscreen is intuitive and comfortable by simply pressing the

button for your desired program. The BioMax is doing the rest for you: checking for airtightness of jars, catalyst activity and many more.

The BioMax may also be used for small-scale experiments like flushing CO² or N²-gas in an anaerobic jar.





EFFICIENT

The BioMax prevents the daily use of consumables by using regenerative Palladium catalysts. No extra waste, good for the environment and very cost-effective.

The BioMax is used with Kentron's anaerobic jars but is also compatible with jars from other brands.

To achieve a good end result of your culture, this can only be achieved by using an economic and technical method. The ergonomic construction makes the BioMax a rational and assured method. The installation is simple.

The BioMax is compact and does not take up much space on the bench. The vacuum pump, sensors and valves are all integrated.

The complete workflow is controlled by means of a highly integrated micro-computer system, a well-developed design and high-quality materials.

Besides our standard (round) anaerobic jars with different volumes, we have also developed the A-Box, a rectangle jar for culturing in to deep-well microtiter plates, tubes or other. The A-Box comes in 3 sizes: regular, XL or XXL.

Kentron Microbiology offers other accessories available for a successful culture: regenerative Palladium catalysts, cleaning sets, maintenance sets and a variety of Petridish/micro-plate holders.

STRATUS MICROPLATE READER WITH THE A-BOX XXL

The Stratus hand-held microplate reader fits the A-Box XXL and can be used with an anaerobic or microaerophilic environment. Anaerobic culturing is brought to the next level: incubating and reading Optical Density during growth is now made possible and very cost-effective.

Kentron Microbiology offers now a flexible program for the laboratory culturing of anaerobes by saving time and money.



ACCESSORIES FOR THE CULTURE OF MICRO-ORGANISM

Whether you are using petri-dishes, tubes, or micro-titer plates, Kentron has the right anaerobic jar for you.

Kentron Microbiology also produces an extended range of accessories for a successful culture of your anaerobic micro-organism.

THE BIOMAX AND AN ANAEROBIC CHAMBER?

If for scientific research and development certain processes are needed in a strictly anaerobic environment, we offer the Bactron anaerobic chambers from Sheldon Manufacturing.

**Have we generated your interest?
Ask us for all the possibilities.**

TECHNICAL SPECIFICATIONS

Power

1 x 220 - 240 V, 50 HZ, 1 A

Dimension (WxDxH)

280 x 320 x 470 mm

Net weight

17 kg

Gas pressure

1,6 -1,9 Bar

Language

English, German, French, Dutch

Software updates

USB

Printer port

RS-232

Other available ports

Ethernet LAN and USB

CE + RoHS

Yes

Resolution pressure sensor

1 mbar

RANGE OF BIOMAX-MODELS

BioMax MK1

1 jar, 1 gas

BioMax MK2

2 jars, 1 gas

BioMax MK3

3 jars, 1 gas

BioMax MK4

1 jar, 3 gas

BioMax MK5

1 jar, 2 gas

BUILT-IN QUALITY CONTROL SYSTEM FOR:

Internal parameters

- Electronical control of gas-pressure
- Digital flow of program-cycles
- Date/time indication
- Displays end result
- Overpressure safety of gas flow into anaerobic jars

External parameters

- Control of the effectiveness & overall activity and presence of a Palladium catalyst
- Operator-ID
- Jar-ID
- Jar-leak test

THE OPERATION OF THE BIOMAX SYSTEM IS VERY INTUITIVE

By simply touching the digital color touchscreen with visibility in program cycles, measured values and notifications.

FOUR STANDARD PROGRAMS:

- Microaerophilic culture: one cycle with a default QA-QC
- Anaerobic culture: three cycles with a default QA-QC
- A fast Microaerophilic culture with a FAST QA-QC
- A fast Anaerobic culture with a FAST QA-QC

Programs with specific anaerobic gas mixtures are available on request.

ADDITIONAL OPTIONAL PROGRAMS FOR THE BIOMAX:

- Oxygen reduction between 1 to 15% O².
- Controlled Flushing of anaerobic jars with CO² or N²

TRACEABILITY

The end results of the programs selected with values can be printed out with a thermal printer or stored in the memory.

SERVICE FRIENDLY

The BioMax system is economic in maintenance and very service friendly.

Modern technology, in which components are directly assembled and 100% air-tight, makes a fast and effective intervention possible.

BIOMAX IS USED IN THE CULTURE OF MICRO-ORGANISMS IN THE FOLLOWING LABORATORIES:

- Pharmaceutical
- Hospitals
- R&D & Industry
- Food, Feed and Water
- Petrochemical industry
- Veterinary

Hanzestraat 5
7006 RH Doetinchem
Netherlands

E-mail address
office@kentron-microbiology.com

Phone number
+31 (0) 314-380527

Fax number
+31 (0) 314-382899