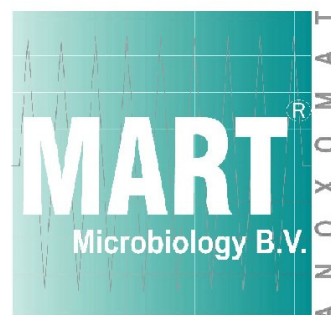


Operation Manual Anoxomat Mark II OP



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General description

The MART® Anoxomat Mark II OP system is an automated system, which creates in a few minutes, an anaerobic or micro-aerophilic atmosphere in an anaerobic jar. The condition is created by evacuating a jar and filling it again with a (oxygen free) gas mixture, according to the method of Macintosh and Fildes.

The MART® Anoxomat Mark II OP system controls this process by means of a processor and performs quality assurance tests to ensure that conditions for optimum bacterial growth are precisely met.

We inform the user about the general characteristics, the specifications, the installation and the operation of the system.

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Before installing the system

Unpacking your Anoxomat system

- Before you unpack the system, please check that the package has not been damaged during transport, and that all cartons were delivered as per the packing list.

Placement

- Put your Anoxomat on a clean dry and stable surface, with enough room to the right side of the machine to place your jars.

Read the operation manual

- For full knowledge of the Anoxomat system and its possibilities, you are advised to read this operation manual through completely.

Configuration of the Anoxomat-System

- Mart Anoxomat System
- Mart Jars
- Mart holders for Petri dishes
- Mart catalysts
- Mart Jar cleaner and disinfectant
- Gas-cylinder
- Reducing valve (1.5 bar)



Specification of the Anoxomat

Basic configuration

- 1 jar-connection
- 1 gas-connection
- An internal vacuum pump
- Standard Micro-aerophilic Program: 6% oxygen
- Standard Anaerobic Program: 0% oxygen
- Quality Assurance system
- Pushbutton operation
- Display of process report

For available accessories, please view [Accessories](#)

Installation

Directions for Installation

Quick installation and usage guide

Please consult the Quick installation guide delivered with the system

Quick installation guide

1) Check availability and unpack:

- Anoxomat
- User manual on CD-Rom
- Parts package: gas tube, 2 tube clamps, 1 reserve, Fuses
- One Mart jar and a catalyst
- One gas cylinder (not from Mart)
- One reducing valve (if ordered, from Mart)
- Tools (not from Mart)
 - o An adjustable (nut) spanner to tighten the reducing valve
 - o Adjustable-joint pliers to tighten the gas tube clamps



2) Install the gas supply

- Mount the reducing valve on the gas cylinder; use the adjustable (nut) spanner
- Connect the reducing valve with gas input of the Anoxomat with the gas tube from the parts package; use a tube clamp on each side; use the adjustable-joint pliers to tighten the gas tube clamps
- Open the gas cylinder's main supply, and set the pressure to 1.5 bar, precisely.



3) Connect the Anoxomat to the power supply.

- Use a standard power cable

4) Switch on the system

- In the display the following text will appear:

Anoxomat
AN2OP

(Gas connection)



You Anoxomat system is now ready for use.

For installation assistance please contact your local Anoxomat supplier or call Mart Microbiology: +31 (0)512-549984

Mart Microbiology B.V. Version1, dd. 14-10-2008

Connections on your Anoxomat (right)



Gas connection

Jar tube

Connection gas supply
Jar-tube

Gas supply


Standard gas mixture

For creating standard anaerobic and/or micro-aerophilic conditions one gas-cylinder should be connected with a standard gas mixture used for anaerobic bacteria cultivation as well as for micro-aerophilic bacteria cultivation.

The mixture could have a composition as specified in the line "Primary gas supply" in below table. The resulting mixture in the jar using the standard recipes is mentioned in the next 2 lines.

Primary gas supply composition - gas composition, result in the jar

	O ₂	CO ₂	H ₂	N ₂
Gas supply (alternative 1)	-	10%	5%	85%
Standard micro-aerophilic recipe	6,0%	7,1%	3,6%	83,3%
Standard anaerobic recipe	0%	10,0%	5%	85,0%
Gas supply (alternative 2)	-	10,0%	10,0%	80,0%
Standard micro-aerophilic recipe	6,0%	7,1%	7,1%	79,8%
Standard anaerobic recipe	0,0%	10%	10%	80,0%

 A maximum of 14% H₂ avoids the gas mixture to become combustibile or explosive.

Reducing valve

The gas cylinder, which has to be connected to the Anoxomat, should be equipped with a **TWO-STEP** reducing valve, which reduces the pressure in the gas cylinder to the Anoxomat working pressure. The working pressure is 1.5 bar.

Please view: [Accessories - Reducing valve](#)



⚠ Reducing valves connected with the appliance shall comply with the relevant safety standards. Tighten the reducing valve well to avoid leakage of gas.

Parts package

In the Anoxomat box, you will find a package containing following parts:

- Gas tube
- 2 tube clamps, 1 reserve
- Jar tube plug for hardware tests



Connecting the Standard gas mixture

- Push the gas tube onto the connection on the Anoxomat and the reducing valve of the gas cylinder
- **Fasten the tube with the tube clamps**
- Open the gas supply on the gas cylinder
- Set the gas-pressure with the reducing-valve on 1.5 bar.

⚠ Too much deviation from the required operational pressure will cause operation failure and may cause malfunctioning, or even damage the system.

Connections on the Anoxomat

Electrical Power

Connections on your Anoxomat (left)



Power Inlet

On/Off Switch

Power- supply 220-240 Volt or 110-120 Volt (please view number plate on the bottom of the machine)

- Connect the Anoxomat to an electric point.

⚠ Please use a well-earthed connection point.

Switch on the Anoxomat.

In the display the following text will appear:

Anoxomat
AN2OP 1.7.23



Basic directions for use


Quick installation and usage guide

Please consult the Quick usage guide delivered with the system

Quick usage guide.

- 1) Fill a jar**
 - Put your inoculated dishes, tubes, micro well plates, or other samples in the jar with the help of the petri dish holder.
- 2) Close the jar**
 - Put the lid on the jar, slide the jar clamp over the lid and tighten clamp screw.
- 3) Choose the appropriate recipe on the operation panel**
 - By pushing Anaerobic button.
 - or the Micro-aerophilic button.
 - In case of the anaerobic recipe, place a regenerated catalyst under the catalyst clip on the bottom of the jar lid.
 - The catalyst must be regenerated ~~after each incubation~~, by heating it in a hot air oven at 160°C for 30 minutes or 100°C for 60 minutes to dry it thoroughly.
- 4) Choose the Quality assurance setting**
 - For the micro-aerophilic and anaerobic recipe, the quality assurance is engaged as default.
 - o The LED on the side of the button lights up.
 - You can engage or disable the quality assurance by pushing the Quality Assurance button.
- 5) Connect a jar**
 - Push the black jar tube into the coupling on the jar lid.
 - o In case the connector does not slide in, please first pull the outer ring of the snap shut coupling downward.
- 6) Press the start/continue button.**
 - During operation the start/continue button blinks slowly
- 7) When the process is finished**
 - the start/stop button blinks quickly and the display indicates:

Microaerophilic 6% O ₂	Anaerobic 0.2% O ₂
--------------------------------------	----------------------------------
 - To uncouple the jar for incubation, pull the outer ring of the snap shut coupling downward

 The Mart jars are never to be cleaned with alcohol, and not to be exposed to temperatures of more than 80°C.

For further and more detailed information please view the operation Manual on the CD-Rom



Mart Microbiology B.V, Version 1, dd. 14-10-2008

Operation

Your Anoxomat is equipped with a 2-line display

Anoxomat
AN2OP 1.7.23

The 2-line display will report about the status of a recipe.

The **Start/Continue** button.



- 1) To **start** a recipe; push the Start/Stop button.
 - 2) To **stop** a recipe during a run; push the Start/Stop button.
- When the Anoxomat is ready, the Start/ Stop button emits light **continuously**.
 - When the Anoxomat is processing the Start/ Stop button will **blink slowly**
 - When the Anoxomat has stopped a process the Start/ Stop button will **blink quickly**

Operating procedure

Fill the jar

Put your inoculated dishes, tubes, micro well plates, or other samples in the jar with the help of the Petri dish holder. (please view [Mart Jars and Petri dish holders](#)),

Add catalysts

In case of anaerobic inoculate, add an active catalyst (please view [Catalyst](#)), and if required by the laboratory SOP- an optical Oxygen indicator.


Close the jar

Put the lid on the jar.
Slide the jar clamp over the lid.
Tighten (Finger-tight only) the jar clamp screw.

Connect the jar

Connect the jar by pushing the jar tube connector in the snap shut coupling on the lid as shown.
In case the connector does not slide in, please first pull the outer ring of the snap shut coupling downward.



 For your own safety, never use jars which are cracked or in any other way damaged.

Choose a recipe:

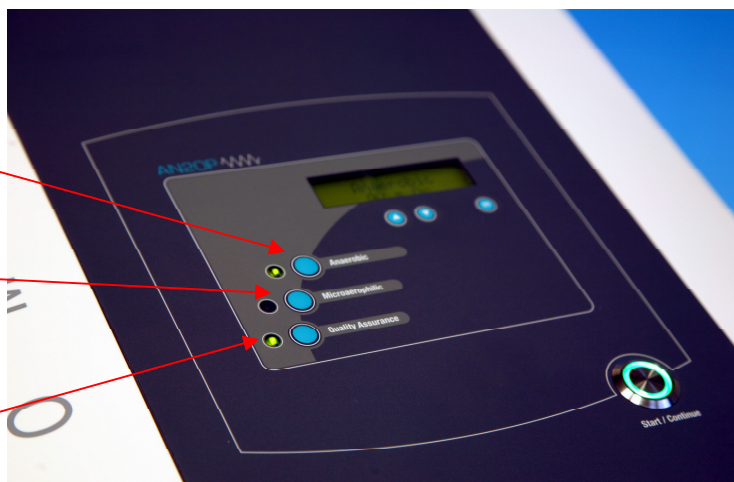
Choose the appropriate recipe on the operation panel, by pushing the Anaerobic button.

Anaerobic
QA = On

or the
Micro-aerophilic button.

Microaerophilic
QA = On

The LED
on the side of the button lights up.

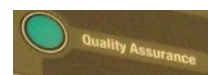


Quality assurance

For the micro-aerophilic and anaerobic recipe, the quality assurance is engaged as default.


The LED on the side of the button lights up.

You can engage or disable the quality assurance by pushing the Quality Assurance button. (please view [Quality assurance program](#))



Anaerobic
QA = Off

Microaerophilic
QA = Off

 The last setting of the Quality Assurance (On or Off) for the specific recipe (Micro-aerophilic or Anaerobic) will be memorised until the Anoxomat is switched off.

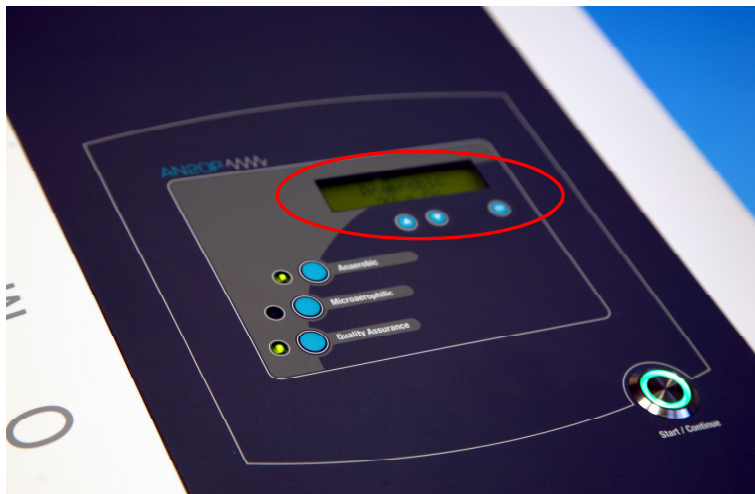
Start

Press the light emitting **Start/Continue** button located below the touch screen.



Process-report

During a recipe-run and after it has finished a "Process report" will be displayed display of the Anoxomat



Following messages may appear in the display:
When starting a recipe, the Anoxomat will perform the following operations.

Gas-input test

The Anoxomat will test before each recipe, if the gas pressure input is on the desired level (1.5 bar)

Gas Input Test
Pres: 2500 mBar

Gas Input Test
Gas pressure OK

Jar-detection

The Anoxomat will try to detect whether a jar is connected.

Jar detection
Jar detected

Evacuation

Evacuating

Means that the system is in the process of evacuation of the jar.

Jar-leak test

In case the quality assurance is engaged, the Anoxomat will perform a jar-leak test.

Jar Leak Test

Means that the system is in the process of testing the jar for leakages in deep vacuum.

Jar Leak Test

Passed

Means that the jar has been tested negative on jar-leakage in deep vacuum.

Replacing

Replacing

Means that the Anoxomat is in the process of refilling the jar with the anaerobic gas mixture.

Seal-leak test/ Catalyst activity test

In case the quality assurance is engaged, the Anoxomat will perform a second jar-leak test and a catalyst activity test in near atmospheric pressure.

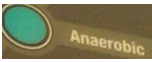
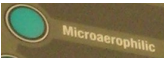
Seal Leak/
Catalyst Test


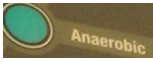
means that the system is in the process of:

- 1) testing the sealing of the O-ring of the lid for leakages in near atmospheric pressure.
- 2) testing the presence of catalyst activity

Passed

means that:

- in case of an anaerobic recipe  the jar has been tested negative on jar-leakage in near atmospheric pressure and that the catalyst activity is sufficient to create and maintain an anaerobic atmosphere.
- in case of an micro-aerophilic  recipe the jar has been tested negative on jar-leakage in near atmospheric pressure and that no catalyst activity was detected.

 In case of an anaerobic recipe  The system will perform 2 additional cycles without quality assurance tests.

2 times

Evacuating

and 2 times

Replacing

End of recipe

When the system has finished its recipe the display will show:

Microaerophilic
6% O₂

or

Anaerobic
0,2% O₂


The



button will blink more rapidly to indicate that the recipe has finished.

Disconnect and incubate

You disconnect the jar by pulling the outer ring of the snap-shut coupling downward. The jar tube should jump out of the snap-shut coupling. This closes the snap-shut coupling and maintains air tightness of the jar.

 Please hold the black tube with your other hand, as it may jump up


The jar now has the atmosphere you desired, and will keep this atmosphere during incubation.

You can put the jar into the incubator

Next Job

To leave the "process report" press the light emitting **Start/Continue** button once. The Anoxomat is ready for the next job.




 The last chosen recipe and the last chosen quality assurance setting will appear in the display as "active" recipe

Anaerobic
QA = On

Accessories


Reducing valve

To reduce the pressure in the gas cylinder to the required Anoxomat working pressure, a reducing valve has to be used on the gas cylinder(s). Please note that the tube running from the reducing valve to the Anoxomat has an inner diameter of 8 millimetres. The outlet of the reducing valve should not be too short and too thin.

 Maximum outlet pressure to the Anoxomat should never be higher than 2 bar absolute


Technical requirements of the reducing valve

Description	Two step regulator
Max. in pressure	200 bar
Range	0 to minimum 2 bar, Outlet pressure should be accurately adjustable to 1.5 bar
Capacity	Max. 5 nm ³ / h
Adapter	Anoxomat gas tube has an inner diameter of 8 millimetres.

 Reducing valves connected with the appliance shall comply with the relevant safety standards

Mart Jars and Petri dish holders

With your Anoxomat system you have purchased or will purchase anaerobic jars.

 The AN2OP operates with one jar type only. You have chosen to work with either AJ9022 OR AJ9023. Additional purchases can only be of the same jar type.

To facilitate the handling of the Petri dishes, Petri dish holders are available for all jars and for the usual dishes.

Please find the available MART[®] Jars and Petri dish holders hereafter:

Available MART[®] Jars and Petri dish holders

Jar type	Diameter, height in mm, volume	Contents	Petri dish holder type
AJ9022	ø =123, h=125, 1.35 l	1 stack of 6 Petri dishes ø 9-10cm	PH 1060
AJ9023	ø =123, h=240, 2.75 l	1 stack of 12 Petri dishes ø 9-10cm	PH 1040

Mart Catalyst

The MART[®] Catalyst consists of a stainless steel gauge sachet with palladium-coated aluminium pellets and can be clipped under the lid of the jar.

The MART[®] Catalyst is a cold catalyst. The function of the catalyst is to provoke the reaction of H₂ with O₂ to H₂O.

The following table shows the available MART[®] Catalyst and how they should be used:

Available MART® Catalyst

Code	Jars	Quantity
CA0000	AJ9022, AJ9023	1



In the literature the following statements about the catalyst are made:

“The pellets can be inactivated by excessive moisture and H₂S, therefore, they should be reactivated after each incubation by heating the sachet of pellets to 100-160 °C in a drying oven for 1-1/2 hours.”

Reactivated catalysts should be stored in a dry area until used.

The catalyst should be renewed regularly because irreversible degradation of catalytic activity takes place (due to chemical binding with S-ions). The end-of-life period depends on the type of bacterium cultivated or, more accurate, the H₂S production. Therefore it cannot be indicated exactly how many incubation cycles can be executed with one sachet.

Mart catalysts can be regenerated in a small oven which can be provided by Mart Microbiology b.v (Please view: [Catalyst regeneration oven](#))

Catalyst regeneration oven

To avoid the use of weak catalysts, MART® advises to regenerate the catalysts after EVERY incubation.

Mart Microbiology b.v does offer a special catalyst regeneration oven for this purpose.



The regenerated catalysts have to be stored at room temperature in a clean, dry environment until the time of use.

Options

No options are available for the Anoxomat AN2OP.

Technical specifications of the Anoxomat

Electrical

Parameter	Value Type 220 V	Value Type 110 V
Voltage	220-240 V	110-120 V
Frequency	50 - 60 Hz	50 - 60 Hz
Fuse 1 and 2	6.3 A slow	6.3 A slow
Peak current	1,1 Amp.	4,3 Amp.

Housing

Item	Description
Bottom	Steel, powder coated
Top	ABS B300 IR, black, sandstone, mat ABS B300 IR, white, smooth, mat
Net weight	Ca. 11.5 Kg
Footprint	Width 32 cm, depth 52cm
Maximum height	28 cm

General

Item	Description
Operating temperature	10-32 °C (50 - 91 °F)
Relative Humidity	20 - 80 %

Gas consumption

For creating standard conditions in a jar suitable for 12 Petri dishes (Mart jar AJ9023), the system consumes gas as follows:

Gas consumption per jar:

Standard recipe	Litre per jar
Micro-aerophilic standard recipe	about 2 litre per jar only
Anaerobic standard recipe	about 7 litre per jar only

Jars per gas cylinder:

Cylinder	Micro-aerophilic Jars per cylinder	Anaerobic Jars per cylinder
Cylinder: 10 Litre / 150 bar	> 700 jars	>200
Cylinder: 10 Litre / 200 bar	> 950 jars	>250
Cylinder: 50 Litre / 150 bar	> 3.600 jars	>1.000
Cylinder: 50 Litre / 200 bar	> 4.900 jars	>1.400

Error indication and trouble shooting

Process-report errors

During a recipe and after it has finished a "Process report" shown in the display:

Gas-input test

The Anoxomat will test before each recipe, if the gas pressure input is on the desired level (1.5 bar)

When the Gas-input has been tested negative this means the pressure supplied by the reducing valve to the Anoxomat is lower than 1000 mbar (1 Bar)

Gas Input Test
Gas pres too low

or higher than 2000 mbar (2 bar)

Gas Input Test
GasPres too high


Please view: [Connecting the Standard gas mixture](#)

Jar-detection

When a connected jar cannot be detected it can have various reasons:

Jar detection
Vacuum in Jar

means that there is still vacuum in the jar due to a previously aborted recipe.

 You need to uncouple the jar, let off the vacuum and take off the lid to ventilate the jar.

Jar detection
Jar not detected

means that you have not connected or not properly connected the jar

Jar detection
Jar not comp.

means that the jar you try to use is not compatible with the specifications of the Anoxomat. In this case please contact your distributor.

Evacuation

Pump
Timeout

means that during the evacuation process the jar is uncoupled, or the connection between the Anoxomat and the jar has otherwise been severed.
The system will stop the evacuation process after 1 minute

Jar-leak test

Jar Leak Test
Fail

means that the jar has been tested positive on jar-leakage in deep vacuum.
A leak has been detected.

Replacing

Fill Time-out

means that during the filling process the jar is uncoupled, or the connection between the Anoxomat and the jar has otherwise been severed.
The system will stop the filling process after 1 minute

Seal-leak test/ Catalyst activity test

Seal Leak
Failed

Means that the jar has been tested positive on jar-leakage in near atmospheric pressure.

This normally means there is no full sealing between the lid and the jar (rubber O-ring in the lid). A leak has been detected.

Catalyst Test Failed

Means that the catalyst activity has been tested negative or insufficient to create and maintain an anaerobic atmosphere.

Illegal Catalyst Activity

Means that catalyst activity has been detected although the chosen recipe is micro-aerophilic.

Other display information

Some other errors could be indicated in the display of the Anoxomat

Aborted by user!

Means that the operator has stopped the process during a recipe.

Hardware test program

In case above troubleshooting has not been successful, it may be necessary to perform one or more hardware tests on the system without jars so that system failures can be shut out:

You will need to contact your supplier whenever you need to perform Hardware tests

Maintenance


Maintenance of the Anoxomat

 Please make sure the system is unplugged when you clean or maintain it.

Your Anoxomat needs little maintenance. Some points should be observed.

- Never let the jar tube hang in the dust, as the system always tests the jar tube to check for attached jars.
Please place unused tubes in the holder on the backside of the system.
- The housing of the Anoxomat can be cleaned with a **damp** cloth only (never too wet!). Don't use alcohol. You can use Halamid. Please also view: [Jar cleaner and disinfectant](#)
- Visual checks for cracks and bends should be made regularly on all tubing and external cabling.
In case of damages, new tubing and external cabling should be ordered immediately.
The customer can execute the exchange, but can also call for help Mart Microbiology or with it's appointed distributor.
Use only material ordered with Mart Microbiology or with it's appointed distributor. Instructions will accompany the spare parts.

Repairs

 Never attempt to open the housing of the Anoxomat system
Repairs may only be executed by Mart Microbiology or by their appointed local distributors.
Please also view: [Guarantee](#)

Technical contact details can be obtained with Mart Microbiology. A comprehensive list of appointed distributors can be viewed on www.anoxomat.com.

Maintenance of Mart jars

⚠ The Mart jars are never to be cleaned with alcohol, and not to be exposed to temperatures of more than 80°C.

It is advisable to perform the following maintenance every 3 months on the MART anaerobic jars:

- Spray a little Teflon-spray in the snap-shut coupling to keep the coupling supple.
- Clean and apply acid-free Vaseline on the rubber O-ring of the lid.

Jar Maintenance Toolkit.

To be certain that the jars are maintained correctly and regularly, a small box with necessities to maintain all jars working with the Anoxomat (original Mart jars, as well as modified jars of other brands) is available. This kit includes 10 replacement snap shut couplings (these cannot be cleaned, only be greased with Teflon spray), tools, cleanser and lubricant, complete with instructions.



Refill set for Jar Maintenance Toolkit

Also available is a refill set consisting of only the used materials of the toolkit

Jar cleaner and disinfectant

The Mart Jars are never to be cleaned with alcohol, and are not to be cleaned under temperatures of more than 80°C.

Mart Microbiology B.V. advises Halamid jar cleaner and disinfectant

Halamid is based on latent chlorine and oxygen. It is officially registered in conformity with the Dutch Biocide Regulation for use in the food-industry and healthcare. Halamid is available in 2.5 (500 litres) or 5 kg (1.000 litres) buckets

- It is effective against bacteria, fungi and viruses.
- It has a very high percentage of stable and active substance.
- It releases only that amount of chlorine, which is needed for a maximum disinfecting result. A Halamid-solution keeps therefore its activity for even very long periods.
- It has excellent storage-stability.
- It is not aggressive towards metals and other materials (such as rubber, plastics, wood etc.)
- It does not attach to surfaces and is therefore easy to rinse.
- It solves easy in cold water (maximum concentration is 10% at a temperature of 15°C). In most cases 0,5 till 1,0% will be sufficient.



Limitations

- The Anoxomat AN2OP operates with one jar type only. You have chosen to work with either AJ9022 OR AJ9023. Additional purchases can only be of the same jar type.
- No options are available for the Anoxomat AN2OP.
- The Anoxomat AN2OP can not be extended with more jar or gas connections at a later stage.
- The Anoxomat AN2OP can not be programmed for other recipes than the standard anaerobic- and micro-aerophilic recipes

Limited Warranty

LIMITED GUARANTEE ON THE ANOXOMAT SYSTEM ONLY. (ASSERORIES TO THE ANOXOMAT SYSTEM, LIKE ANAEROBIC JARS AND CATALYSTS ARE EXCLUDED)

MART[®] MICROBIOLOGY B.V. guarantees the original consumer / purchaser only that the ANOXOMAT SYSTEM shall be free from defects in materials and workmanship for a period of one (1) year after the original date of ex-works delivery by MART[®] MICROBIOLOGY B.V. At their option, MART[®] MICROBIOLOGY B.V. will repair or replace at no charge any ANOXOMAT, which proves to be defective within such warranty period. This limited warranty shall not apply if the ANOXOMAT has been damaged by unreasonable use, accident, negligence, service or modification by anyone other than a MART[®] MICROBIOLOGY B.V. Factory Authorized Service Centre, or by any cause other than related to defective materials or workmanship during production.

To receive warranty service, a defective ANOXOMAT must be received at a MART[®] MICROBIOLOGY B.V. Factory Authorized Service Centre no later than one (1) week after the end of the warranty period. Purchasers must prepay all delivery costs or shipping charges to return any defective ANOXOMAT under this warrant policy. If anyone ships the ANOXOMAT, it should be packed securely (using the original packing materials) and insure it for value, as MART[®] MICROBIOLOGY B.V. assumes no liability for loss or damage incurred during shipment.

EXCEPT FOR THE EXPRESS WARRANTY STATED ABOVE, MART[®] MICROBIOLOGY B.V. MAKES NO OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, WITH RESPECT TO THE ANOXOMAT. ALL IMPLIED WARRANTIES INCLUDING THOSE OF MERCHANT ABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY LIMITED TO THE DURATION OF THE EXPRESS WARRANTY STATED ABOVE.

The limited warranty stated above constitutes the sole and exclusive remedy for the original consumer / purchaser with respect to any defective ANOXOMAT and is in lieu of all other obligations or liabilities of MART[®] MICROBIOLOGY B.V. In no event shall MART[®] MICROBIOLOGY B.V., be responsible for any costs of procurement of substitute goods, loss of profits, or any incidental, consequential, and/or special damages of any kind resulting from breach of any applicable express or implied warranty, breach of any obligation arising from breach of warranty, or otherwise with respect to the manufacture and sale of any MART[®] MICROBIOLOGY B.V., product, whether or not MART[®] MICROBIOLOGY B.V. has been advised of the possibility of such loss or damage.

OUT OF WARRANTY REPAIR: If your ANOXOMAT requires service other than under warranty, please contact MART[®] MICROBIOLOGY B.V. or a MART[®] MICROBIOLOGY B.V. Factory Authorized Service Centre, for available repair information.

In case any repairs or attempt thereof have been made by unqualified parties, the WARRANTY IS AUTOMATICALLY TERMINATED.

Every reasonable effort has been made to ensure that MART[®], product manuals and promotional materials accurately describe MART[®] MICROBIOLOGY B.V. product specifications and capabilities. However, MART[®] MICROBIOLOGY B.V. cannot guarantee the accuracy of printed materials and disclaims liability for changes, errors or omissions.

This warranty does not cover:

- Any accessories belonging to or acquired with, or acquired at a later stage than the ANOXOMAT itself (like anaerobic jars, catalysts, etc).

- normal wear and tear and aging (e.g. scratched display; alteration of the colour and/or material; peeling of the imprint on the covers, tubing,);
- the life of the battery;
- any damage on the ANOXOMAT resulting from abnormal/abusive use, lack of care, negligence, accidents (knocks, dents, crushing, breaking, etc.), incorrect use of the ANOXOMAT and non-observance of the uses age directions provided by MART[®] MICROBIOLOGY B.V.
- the ANOXOMAT handled by non-authorized persons (e.g. for services or repairs) or which has been altered in its original condition beyond MART[®] MICROBIOLOGY B.V.'s control.

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