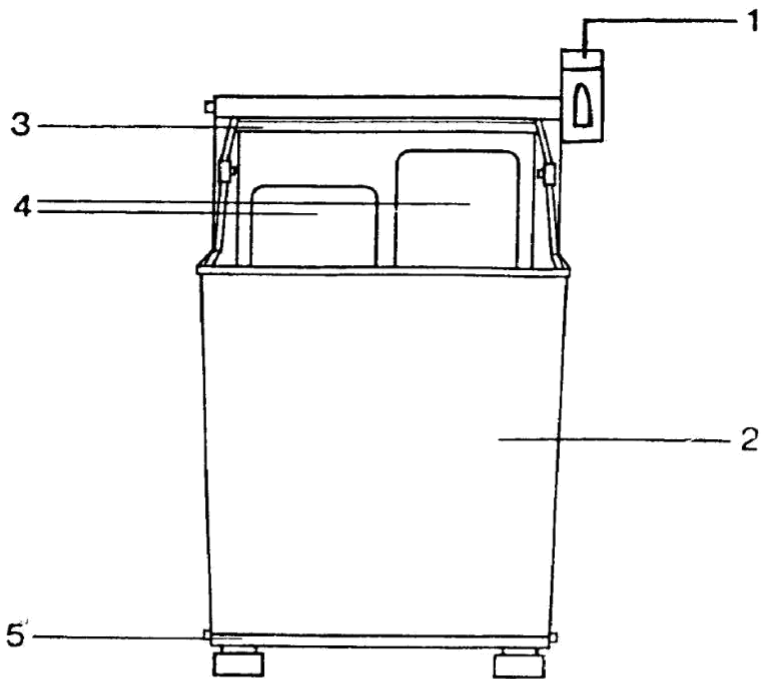




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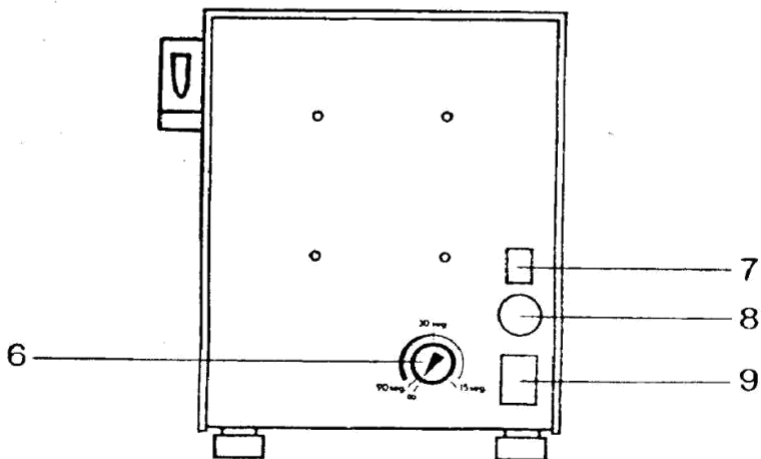
MASTICATOR CLASSIC & BASIC Manual





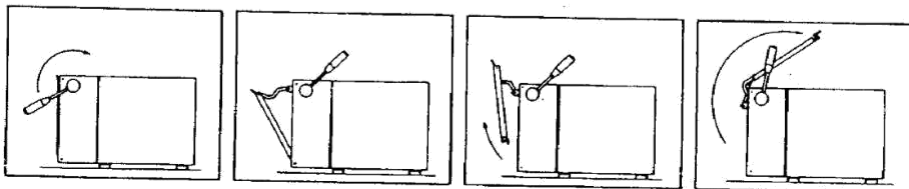
FRONT PART

- 1. Opening and closing lever.
- 2. Sample compartment lid.
- 3. Bag closing bar.
- 4. Homogenization blades.
- 5. Lid holding bar.



REAR PART

- 6. Time switch
- 7. Main power switch ON/OFF.
- 8. Fuse.
- 9. Mains lead connection.



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1.

INTRODUCTION

In many microbiological analysis processes it is essential to have available a liquid sample which has a bacterial content which is representative of a solid, semi-solid, paste and powdery, etc. original material. The liquid sample is easy to cultivate or to process microbiologically whereas the original material would not allow reliable results to be obtained.

In general the homogenization process involves the original substance and the support liquid or diluent being brought into close contact, in order to establish a balance in the microbiological content of both of these.

This process facilitates the use of reusable material which must be washed and sterilized so as not to invalidate consecutive samples.

WHAT IS THE MASTICATOR?

The Masticator is a simple and yet robust instrument, designed essentially to work for prolonged periods without maintenance, and in any kind of environment. Initially devised for the homogenization of different materials in order to take representative samples from them, it is currently used for other applications related to microbiological analysis.

In a short period of time, and with the minimum amount of noise, and without the necessity of cleaning between samples, the Masticator carries out a profound homogenization which makes it possible to obtain a diluent liquid which is perfectly representative of the sample which is to be analysed.

Its working principle lies in the use of bags made of strong polyethylene or other plastics, inside which the original sample and the diluent liquid are placed. The Masticator acts upon the sample and the diluent through the sides of the bag, which, at this moment, is perfectly sealed, without either soiling or contaminating any part of it whatsoever. The action of the blades compresses and allows the periodic expansion of the sample and the diluent for a pre-determined period of time. This operating time is controlled by a time switch which can be adjusted by the operator. In spite of this, a process which is in progress can be interrupted by activating the lever in order to open the homogenization compartment.

The parts which are in contact with the sides of the bag are made of stainless steel, and both the stopper and the homogenization blades are perfectly accessible in order to allow them to be eventually cleaned.

2.

TECHNICAL SPECIFICATIONS

- Maximum capacity per bag: 400 ml. (sample + diluent)
- Minimum capacity per bag: 80 ml. (sample + diluent)
- Compressions per minute: 250
- Time switch minimum: 15 seconds
- Time switch maximum: 90 seconds
- Position of uninterrupted functioning: Yes
- Power supply: 220 V, 1.5 A, 50 Hz
(110 V, 2.5 A, 60 Hz)
- Dimensions: 400 x 270 x 240 mm
- Weight:
 - Model Classic 17 kg
 - Model Basic 19 kg

3.

INSTALLING AND STARTING THE INSTRUMENT

The Masticator requires no special conditions for its installation. Its robustness and its reduced size allow it to be located in any part of the laboratory whatsoever. The only thing which it is necessary to take into account is the proximity of a power source and a surface large enough for it to be correctly supported.

N.B. DO NOT EXPOSE THE SAMPLE COMPARTMENT TO THE AIR. IF THE TABLE IS LARGE ENOUGH, IT WILL NEVER BE POSSIBLE, NOT EVEN BY ACCIDENT, FOR A HAND TO BE PASSED BENEATH THE LID OF THE HOMOGENIZATION COMPARTMENT WHEN THE MASTICATOR IS IN OPERATION, IN THIS WAY AVOIDING THE POSSIBLE TRAPPING OF THE FINGERS.

The Masticator should be received in perfect condition, it was been tested at the factory and the packaging means that it can stand up to the roughest treatment.

Once the instrument has been placed upon the work table, plug the mains lead into is socket, 9, and, at the base, locate the time switch in its minimum position (fifteen seconds) and switch on the main power switch ON/OFF, 7. The Masticator will start up, stopping after approximately fifteen seconds.

By means of the lever, 1, open the homogenization compartment.

4.

OPERATION AND USING THE CONTROLS

- A. Set the time switch to halfway along its possible setting. Thirty seconds is enough time for most samples.

- B. Introduce the sample and the solvent into a homogenization bag. Do not exceed 400 ml in total.

- C. Place the bag into the compartment, the lower edge where the lid, 2, is held down by the bar, 5, is an end where the bag may be rested.

- D. With the mouth of the bag very flat, held with one hand and supported by the rim of the lid, let out 5 cm, and go on to close the compartment with the lever, 1. A moment before the engine starts up the bag will have been hermetically sealed by the pressure of the lid upon the upper bar, 3. The mouth of the bag is trapped between the bar and the lid and is only free when the lever, 1, is activated again.

- E. Once the period of the pre-determined time with the time switch is up, the motor will stop. Hold the flap of the bag and open the compartment with the lever, 1. Take out the bag.

CLEAN OF SAMPLE COMPARTMENT

Remove the lid of the compartment, do this by means of a light movement pulling it upwards and detaching it from its interior holding bar, 5. Tilt it forwards and upwards so that it is maintained supported (see the open position on the back cover).

Now look at the inside, clean off any possible remains of the packaging and make sure that the homogenization compartment is open in its lower part.

This design permits the easy elimination of any remains that could be left over after the accidental breaking of a bag on the inside of the homogenization compartment.

Tilt the lid to its working position and fit the lower angle onto its holding bar. The instrument is now ready for operation.

5

BEFORE NOTIFYING THE TECHNICAL SERVICE

If the Masticator does not start up, check the connection of the mains lead and the fuse, (no.8), situated on its rear side. If both of these are correct contact your sales representative at Scigiene Corporation.

PLEASE NOTE:

This instrument will need to be kept clean by the user. Use a cloth moistened with water but never forget to disconnect the instrument from the power supply before beginning to clean it. The stainless steel compartment can be cleaned with dissolvent or other more active agents, without any danger of its being damaged in any way.

6.

ACCESSORIES AND OTHER RELATED INSTRUMENTS

The Masticator is designed not to need any kind of periodic maintenance. The only accessories which are offered are sterile bags packaged in a variety of ways.

The **Smart Dilutor**, the **Porta Bag** and the **Stand & Tray** are also included in this section.

The **Smart Dilutor** is a diluter especially designed for carrying out the dilution of microbiological samples directly into sterile homogenizer bags. The system automatically prepares your desired dilution based upon sample weight, liquid flow rate and predefined dilution factor.

The **Porta Bag** is a device which allows six bags filled with the sample and the diluent to be held in a vertical position without the fear of spilling the contents. The tray which holds the pincers and these themselves are made of stainless steel.

The **Stand & Tray** is a device adaptable to all the models of Masticator. It consists of a support of stainless steel with a mouth that allows the collection of the bags liquid in case it breaks for any circumstance during the operation. The spilled liquid is collaged in a removable and interchangeable plastic tray.

7. WARRANTY CONDITIONS

LIMITED WARRANTY

SCIGIENE CORPORATION warrants the Instrument, disposables and replacement items, to the original "Purchaser" for a period of three (3) years after date of receipt by the end user, against defects in material and workmanship. **SCIGIENE CORPORATION** agrees to correct either by repair or, at its election, by replacement, any such defect found on examination to have occurred, under normal use and service, during such one (1) year period provided SCIGIENE is promptly notified in writing upon discovery of such defect to the address of one of its workshops noted in the User's Guide.

Upon discovery of such defect, the instrument should be sent to SCIGIENE CORPORATION.

EXCLUSIONS

SCIGIENE CORPORATION shall not be liable as to any defect arising from abuse of the Instrument, failure to operate and maintain the Instrument in accordance with the User's Guide supplied with the Instrument, repair, service, alteration or modification of the Instrument by any person other than the authorized service personnel of SCIGIENE, modification, change or reuse of the disposables supplied by SCIGIENE for use in the Instruments, operation outside of the environmental specifications for the product listed in the User's Guide or accidental damage to the Instrument.

NO OTHER WARRANTIES

The warranty set forth above is exclusive and no other warranty, whether written or oral, is expressed or implied. SCIGIENE and its suppliers specifically disclaim any implied warranties including merchantability and fitness for a particular purpose.

NO LIABILITY FOR CONSEQUENTIAL DAMAGES

SCIGIENE CORPORATION or its suppliers shall not be liable as to any damage whatsoever (including without limitation, special, incidental, consequential, or indirect damages for personal injury, loss of business profits, business interruption, loss of business information, or any other pecuniary loss) or defect arising from abuse of the Instruments, failure to operate and maintain the Instruments in accordance with the User's Guide, repair, service, alteration or modification of the Instruments by any person other than authorized service personnel of SCIGIENE, or modification, change or reuse of the disposables supplied by SCIGIENE for use in the Instruments



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