

EASY



Please read the User Manual carefully before use, and follow all operating and safety instructions!



user manual

english

User manual



Electronic pipette filling device EASY 60+

Introduction

Users must read this manual carefully before using the equipment, and follow the instructions and procedures in order to be aware of all the precautions, as well as in order to obtain the maximum benefits and duration of the equipment.

Service

If help is needed, contact with your supplier/manufacturer or Labbox via:

www.labbox.com






Please, provide the customer service representative with the following information:

- Serial number (on the back side)
- Description of the problem
- Your contact information

Warranty

This instrument is guaranteed to be free from defects in materials and workmanship under normal use and service, for a period of 24 months from the date of invoice. The warranty is extended only to the original purchaser. It shall not apply to any product or parts which have been damaged on account of an improper installation, improper connections, misuse, accident or abnormal conditions of operation. For claim under the warranty, please contact your supplier.


1. Safety instructions

	Carefully read the instructions in this manual before using the device.
	The use of this instrument in flammable, explosive, poisonous or highly corrosive experiments is prohibited.
	Read carefully the safety instructions of the reagent manufacturer.
	Wear the necessary protective clothing, eye protection and gloves according to the reagent manufacturer's information.
	The pipette controller cannot be used with some liquids, the vapors of which could damage the plastics such as ABS, PA, Silicon, POM...

- In case of abnormal circumstances while operating this device, stop using the equipment and contact your supplier.
- The precautions described in this 'User manual' are carefully developed in an attempt to cover all the possible risks. However, it is also important that you are alert for unexpected incidents.

2. Intended use

This Pipette Controller is an engine powered pipetting aid designed for cordless work with glass or plastic pipettes in 0.1 – 100 ml range. Ergonomically shaped and carefully modeled with a light weight handle, together with smooth buttons and conveniently located slide switches ensure effortless pipetting even during extensive use. It has high performance micro pump with a powerful but quite noiseless engine with 3 speed modes. It is equipped with replaceable membrane filter, which protects the mechanism of the device from contamination by solutions steam being drawn into the pipette. It has autoclavable nosepiece and a continuous working limit of 10 hours

	<p>Operating exclusions : Never use this instrument for:</p> <ul style="list-style-type: none"> - Liquids o steam that could damage plastics such as ABS, PA, silicon, POM, etc. -Highly flammable or explosive liquids.
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3. Inspection

3.1. Unpacking

Unpack the equipment carefully and check for any apparent damages that may have arisen from transportation. If necessary, please contact your supplier.



Note:

If there is any apparent damage to the equipment, do not use it. Inform your supplier.

3.2. Items list

The package includes the following items:

Items	Qty
Pipette controller	1
AC adapter	1
Membrane spare filter	1 (0.45um)
Charging base	1
Instruction manual	1
Quality control certificate	1
Charging USB wire	1

Please check that all the items are present and inform your supplier immediately if any of the above is missing.

4. Operation

In first place, check the pipette to be used to ensure that isn't damaged and has no dents or sharp edges in the upper part. Check that the upper gripping part is dry.

Hold the pipette carefully and insert it securely in to the silicon holder inside the cone. Once the pipette has been securely attached, hold the instrument in a vertical position and tip it down.

- **Speed Control:** Set the pump speed using H / L / G Switch.

H: High Position – fast aspirating and fast dispensing

L: Low Position – slow aspirating and slow dispensing

G: Gravity Position – slow aspirating and dispensing by gravity force only

It is recommended to choose L position for less volume pipettes than 5 ml and choose H position for volumes greater than 5 ml.

The aspirating and dispensing speed can also be controlled manually by controlling the finger pressure on trigger button, the deeper the button is pressed, faster the liquid will be aspirated or dispensed.

Function:

Slowly press the upper trigger and the liquid will start to get aspired. Fill the pipette slightly above the desired level, adjusting the aspiring speed by finger pressure. In order to empty the device or dispense the excessive liquid press the lower trigger gently until the meniscus aligns with the pipette volume mark.



Note:

Some pipettes might not be emptied completely due to the pipettes characteristics or design.

5. Charging

The Pipette Controller has a battery LED indicator. If the LED is on, it means that the battery level is low and the device needs to be charged.

The original charger supplied has protection against the overcharging, short circuit and overheating.

Ensure that the voltage matches with the charger specifications.

- Plug the charger jack in to the Pipette Controller.
- Plug the charger in to a suitable wall socket. The red indication on charger will light up indicating charging process has started.
- Allow the unit to charge for approx 5 hours (as this is a quick charger) for getting fully charged.
- Once batteries are fully charged, the charger automatically stops charging and the red indicator will turn into green.
- This device has 2 Numbers of 1000 mAH NiMH type rechargeable batteries.



Note :

During charging process, the pipette controller can be used.

6. Battery Replacement

Unlike most of the other common Pipette Controller the change of batteries is very simple with this instrument and can be carried out without exposing the inner mechanism and circuit.

For replacing batteries, pull out 3 mode switch cover as shown in the images below by applying the pressure below.



Fig. 1

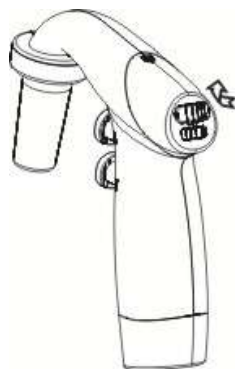


Fig. 2

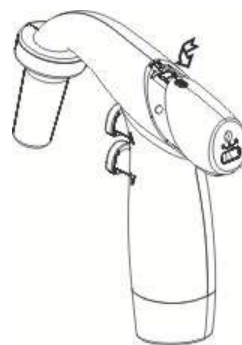
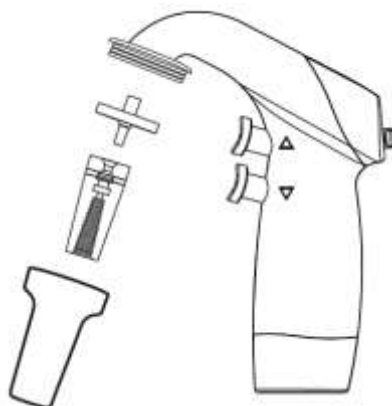


Fig. 3

Now remove the batteries compartment cover pressing by embossed arrow and simultaneously sliding it back. Remove the batteries. Insert new batteries and reverse the above procedure. Put the batteries compartment and switch cover back in to their original place.

7. Filter replacement

- Unscrew the nose piece
- Pull the membrane filter out together with the silicon pipette holder.
- Rinse the silicon holder using a wash bottle
- Blow the liquid out of the silicon holder and leave it to dry.
- Place the new filter, assemble the device in reverse order and carry out a leak test.



**Note :**

Only use original filters and accessories recommended by the manufacturer.

8. Trouble shooting

Problem	Possible cause	Corrective action
Suction capacity is low or the device does not aspire	<ul style="list-style-type: none">-Low motor speed selected-Valve could be blocked-Filter is dirty or wet-Battery defective or too low-Pipette holder is damaged-Sterile nose cone not tightly screwed	<ul style="list-style-type: none">-Increase motor speed-Clean the valve by rinsing. Dry it before installing. If the valve has been displaced, try to set it in the right position.-Replace filter-Charge batteries or replace them-Replace it-Tighten the nose cone
Pipette drips	<ul style="list-style-type: none">-Pipette not securely positioned in the silicon pipette holder	<ul style="list-style-type: none">-Attach again firmly

Nota importante para los aparatos electrónicos vendidos en España

Instrucciones sobre la protección del medio ambiente y la eliminación de aparatos electrónicos:



Los aparatos eléctricos y electrónicos marcados con este símbolo no pueden ser eliminados en forma de residuos urbanos.

De conformidad con la Directiva 2012/19/UE, los usuarios de la Unión Europea de aparatos eléctricos y electrónicos, tienen la posibilidad de devolver sus RAEE para su eliminación al distribuidor o fabricante del equipo después de la compra de uno nuevo. La eliminación ilegal de aparatos eléctricos y electrónicos es castigada con multa administrativa.

Remarque importante pour les appareils électroniques vendus en France

Informations sur la protection du milieu environnemental et élimination des déchets électroniques :



Les appareils électriques et électroniques portant ce symbole ne peuvent pas être jetés dans les décharges.

En réponse à la réglementation, Labbox remplit ses obligations relatives à la fin de vie des équipements électriques de laboratoire qu'il met sur le marché en finançant la filière de recyclage de ecosystem dédiée aux DEEE Pro qui les reprend gratuitement (plus d'informations sur www.ecosystem.eco).

L'élimination illégale d'appareils électriques et électroniques est punie d'amende administrative.

Nota importante per le apparecchiature elettroniche vendute in Italia

Istruzioni sulla protezione ambientale e sullo smaltimento dei dispositivi elettronici:



Le apparecchiature elettriche ed elettroniche contrassegnate con questo simbolo non possono essere smaltite come rifiuti urbani.

In conformità con la Direttiva 2012/19 / UE, gli utenti dell'Unione Europea di apparecchiature elettriche ed elettroniche hanno la possibilità di restituire i propri RAEE per lo smaltimento al distributore o al produttore di apparecchiature dopo averne acquistato uno nuovo. La rimozione illegale di apparecchiature elettriche ed elettroniche è punibile con una sanzione amministrativa.



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