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MICROLIT EASYFILL

Electronic Pipette Filling Instrument
with Single Knob Dual Dispensing Mode

ISO 17025 CE ISO 9001 UK ISO 13485

OPERATION MANUAL

EXPERIENCE PRECISION

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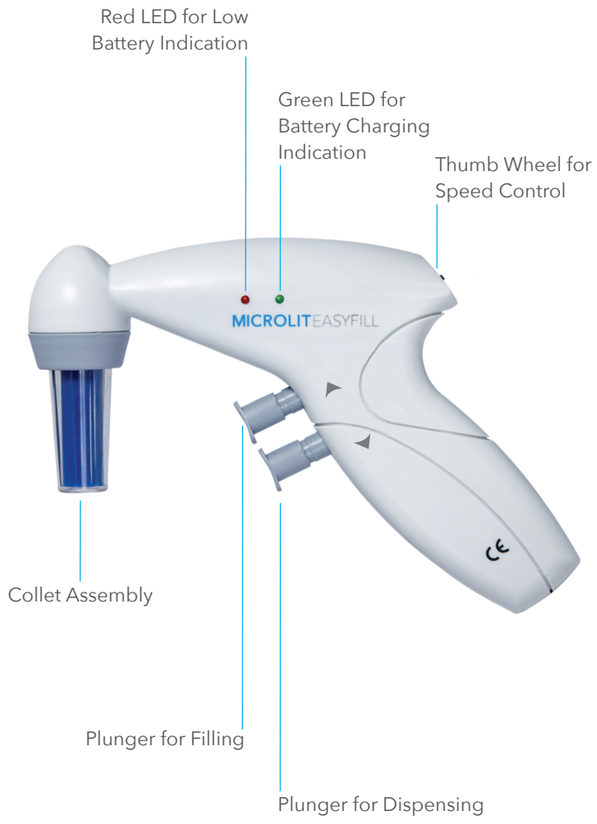

1. Intended Use of the Instrument

MICROLIT EASYFILL is an electronic pipette filling instrument, used for liquid handling in graduated and one-mark pipettes with volume range between 0.1 ml and 100 ml. It works on batteries and is operated by a pump.
It offers high precision, accuracy and reliability in practical laboratory environments.

2. Features

- MICROLIT EASYFILL is suitable for all standard pipettes of 0.1 ml to 100 ml size.
- A 0.2 µm PTFE hydrophobic filter in the collet assembly prevents accidental entry of liquids inside the instrument.
- Internal knurling on the collet ensure firm fit even with wet pipettes.
- The instrument has high aspirating and flow-out speed.
- The instrument possesses a Single Knob control for Gravity and Blow-out modes.
- It is cordless and rechargeable.
- It offers 8 hours of continuous battery operation.
- It has fully autoclavable pipette adapters and filter holders.

Fig. 2.1

- Charging status and low battery status is indicated by Green LED and Red LED, respectively. (Fig 2.1)

3. General Operations

- **Filling and Dispensing:**

Fig. 3.1

Insert pipette (glass/plastic) inside the collet. The collet's internal knurling will hold it firmly in place. Press the upward plunger (look for the 'up' mark) to aspirate liquid into the pipette and downward plunger (look for the 'down' mark) to dispense liquid. (Fig.3.1)

- **Adjustable Pump Speed:**

Fig. 3.2

A thumb wheel at the back of the instrument facilitates convenient pump speed adjustments during liquid handling.
Rotate the wheel clockwise to increase the pump speed and anticlockwise to reduce it. (Fig 3.2)

- **Autoclaving:**

Fig. 3.3

Before autoclaving, disassemble the collet assembly by unscrewing it and then proceed. (Fig 3.3)

Please note that only the collet assembly is autoclavable and NOT the entire instrument.

- **Battery Status and Charging Status:**
'Low battery' status is indicated by the red LED and 'charging' status by the green LED.

Please note that the instrument can be used safely during charging.

4. Troubleshooting

Problem	Cause	Solution
Liquid drops from the pipette	Pipette is not firmly fixed	Recheck the fitting
	Leakage in the collet assembly	Ensure that the collet has been rightly fixed
	Leakage from the inside connections	Send the instrument to your nearest dealer
Pump is not working	Battery is discharged	Charge the battery
	Connection is broken	Send the instrument to the nearest dealer
	Speed controller is set to its lowest position	Adjust the speed controller

5. Routine Servicing

In the event, where a liquid has accidentally entered the collet assembly and is choking the filter, unscrew the collet assembly immediately.

Change the filter, re-assemble the collet assembly and continue normal operation.

6. Warning

- During charging, please ensure that the battery charger is set on the right voltage as per the line voltage.
- Do not allow the battery to discharge completely.
- Take care to properly affix the pipette to prevent accident fall during liquid handling operations.
- Care must be taken during aspiration to prevent the liquid from entering the collet assembly.
- Avoid fuming liquids and solvents. They may cause dripping or their fumes may damage the internal components of the instrument.

7. Accessories

Adapter for battery charging with input voltage – 100-250 V and output voltage – 9 V