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miniiSED® ROUTINE MAINTENANCE

Alarms, Errors, and Troubleshooting

INTRODUCTION

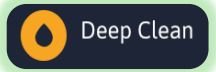
Proper maintenance of the instrument is required to ensure it operates at optimal performance.

No additional routine end user maintenance is required other than what is described in this training module. You may also refer to the miniiSED Operator's Manual for additional information.

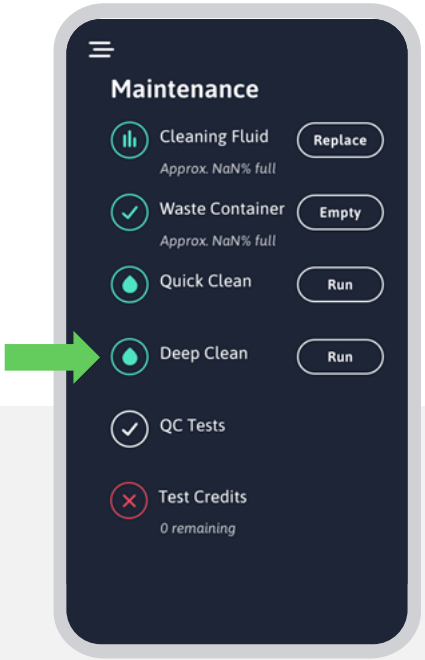
DEEP CLEAN MESSAGE

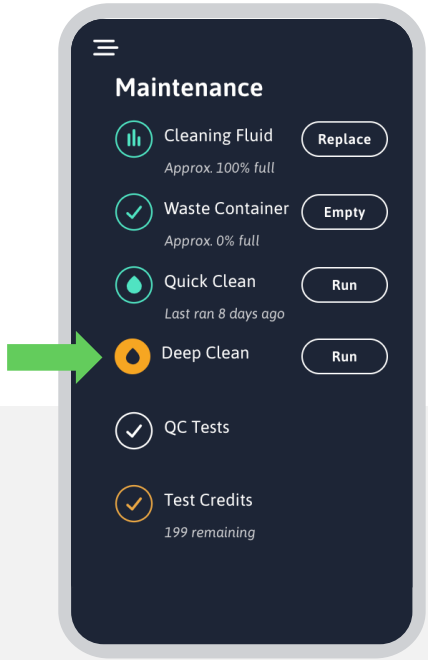
iLEARN

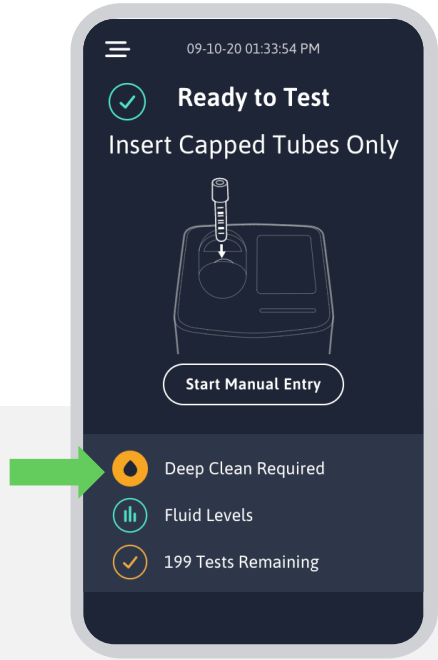
The recommended frequency for Deep Cleaning is monthly or 1000 tests, whichever comes first, rule applies. This action will clean the aspiration pathway from the needle to the reading cell. When a Deep Clean is needed, the Deep Clean 

icon will change to 

and will display on the Home Screen.







Note:
The Deep Clean feature is available in software versions 2.3.4 and above. If your analyzer has any earlier version of software, please contact ALCOR Scientific Technical Support to upgrade your software and obtain the latest revision of the miniiSED Operator's Manual.

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PERFORMING A DEEP CLEAN CYCLE

WARNING: Universal precautions should be followed. Always wear gloves to prevent exposure to pathogens. Dispose of bio-hazardous waste properly.

Materials needed:

- One deepCLEAN® tube

  OR

- Empty and unused 13x75 mm EDTA tubes with pierceable caps
- 6-7% hypochlorite (bleach)
- miniiWASH®

To fill bleach tubes:

- Remove cap from empty tube
- Fill the tube with 3.5 mL bleach
- Recap the tube

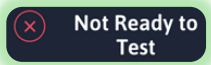
To run a deep clean cycle:

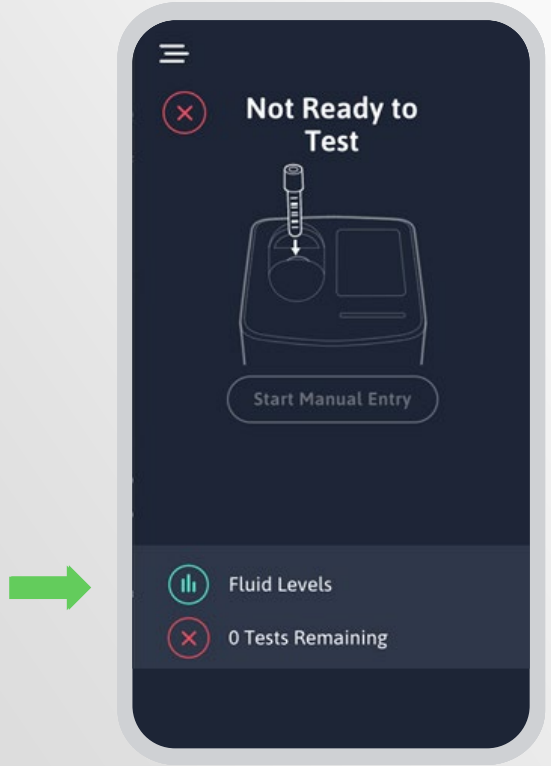
- Select the "run" 

icon to activate a Deep Clean.
- A prompt to insert the deepCLEAN tube or manually prepared bleach tube will be displayed on the touchscreen.
- Insert the bleach tube.
- The Deep Clean cycle takes approximately three (3) minutes, and a countdown timer will display on the screen.

LOW/NO CREDIT INDICATORS

The analyzer is designed to alert the user when Test Credits are below 200 tests and when tests are depleted.

- When Test Credits are below 200 available credits, the  icon changes to  icon.
- Should the limit be exceeded, the  icon will change to  and require attention.
- When tests are depleted, the Home Screen will change to  and testing can only continue once new credits are loaded onto the analyzer.

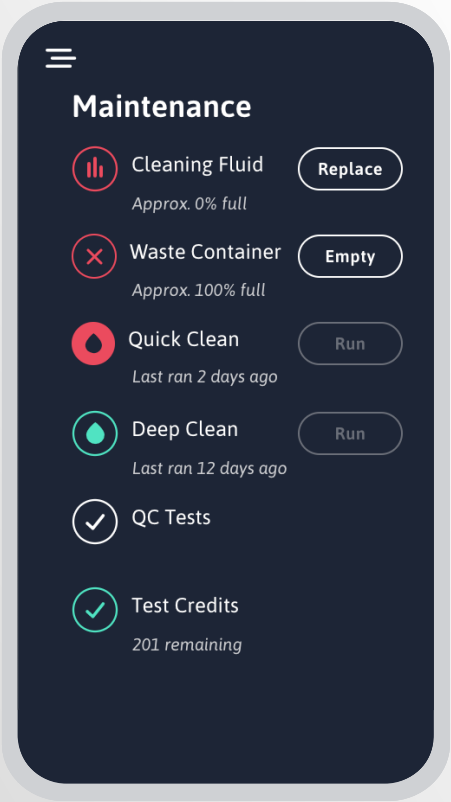


miniiWASH® BOTTLE ALERT

The analyzer is designed to alert the user when the miniWASH bottle is nearly empty and when the bottle is depleted.

- When the wash bottle is near empty, the  icon will change to  icon.
- When the wash bottle is empty, the yellow icon will change to 

- Normal sample processing can only resume after wash bottle has been replaced.



REPLACING THE miniiWASH BOTTLE

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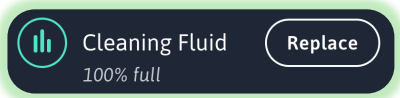
WARNING: Universal precautions should be followed. Always wear gloves to prevent exposure to pathogens. Dispose of bio-hazardous waste properly.

To replace the wash bottle:

- The miniiWASH bottle is located at the rear of the instrument.
- Disconnect the LUER connector from the miniiWASH bottle screw cap.
- Remove the empty miniiWASH bottle, unscrew the cap and replace it with a new miniiWASH bottle. **Do not discard the special wash bottle cap!**
- Place the new miniiWASH bottle at the rear of the instrument and **firmly** reconnect the LUER connector on the plastic screw cap.
- Select "replace" 

icon in the Maintenance Menu to reset.

It is recommended to visually check the wash bottle often.

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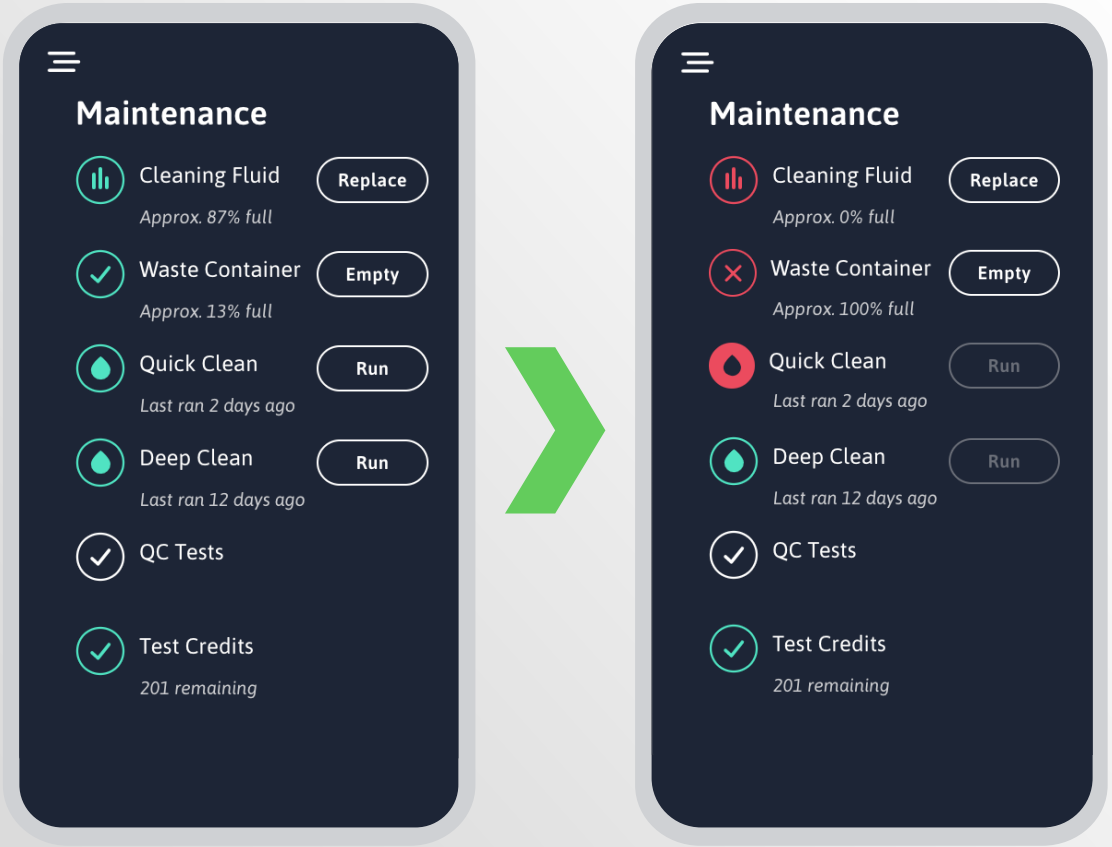
miniiWASTE® BOTTLE ALERT

The analyzer is designed to alert the user when the waste bottle is nearly full and when the bottle is full. When the waste bottle is full, the 

icon will turn red 

and display 100% full.

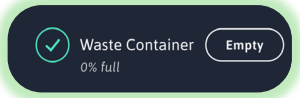


REPLACING THE miniiWASTE BOTTLE

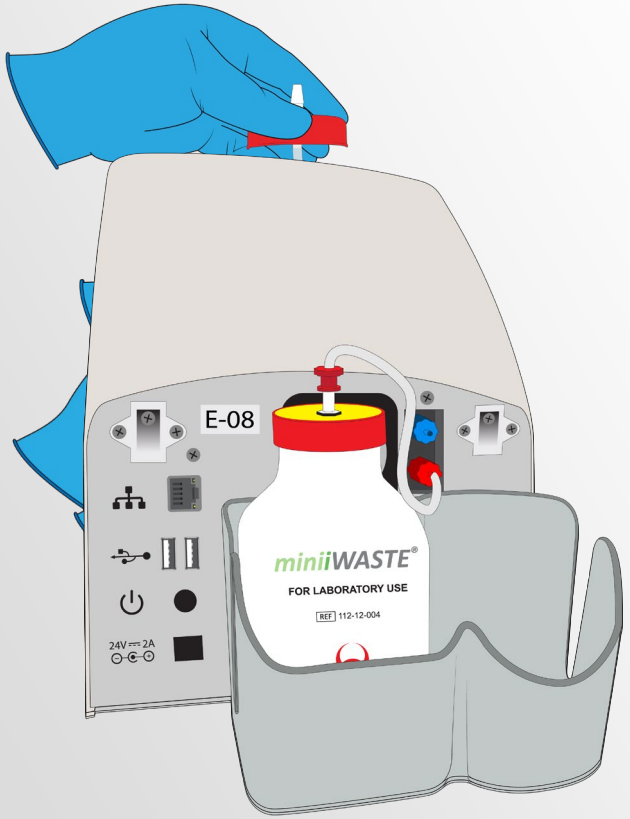
WARNING: Universal precautions should be followed. Always wear gloves to prevent exposure to pathogens. Dispose of bio-hazardous waste properly.

A wash cycle should be run prior to replacing the waste bottle.

To replace the waste bottle:

- Locate the waste bottle at the rear of the instrument.
- Disconnect the LUER connector from the waste bottle screw cap.
- Remove the waste bottle from the back of the instrument and dispose of the waste according to your laboratory's biological waste protocol. **Do not discard the special waste bottle cap!**
- Replace the waste bottle and **firmly** reconnect the LUER connector on the plastic screw cap.
- Select the "empty" 

icon in the Maintenance Menu to reset.



EXTERNAL PRINTER CONTROL PANEL

- Error Light will indicate if there is a problem.
- The MODE Button is used to change the factory settings.
- The power light indicates the ON or OFF status when not plugged into a USB port. When plugged into a USB port, the power light is RED when the printer is charging and GREEN when it is fully charged.
- To turn ON, press the power button for at least one (1) second. After hearing the beep (one low, one high), release the button. The printer will be on.
- To turn OFF, press the power button for at least one (1) second. After hearing the beep (one high, one low), release the button. The printer will be off.
- The FEED button can be held down for paper feeding. Release the FEED button to stop paper feeding.

REPLACING THE PRINTER PAPER

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To replace the printer paper:

1. Hold both sides of the Paper Cover and lift open to access the paper roll.
2. Drop a new paper roll, with the leading edge curling up inside the paper trough.
3. Pull out a small amount of paper past the serrated metal tear bar.
4. Close the cover and use the tear bar to cut the excess paper.

SYSTEM ERROR MESSAGES

During normal operation, if an error is detected, the error is shown on the screen, along with information that indicates what needs to be addressed to clear the error. The errors and related solution paths are described in the Operator's Manual.

Note:

Processing errors supersede the normal processing of samples and prevent use until the error is remedied.

>130 MM/HR SAMPLES

>130 mm/hr

Check the volume of the sample and if less than 0.5 mL check for bubbles as a greater than >130 result could be attributed to a micro bubble being aspirated.

- Repeat the test.
- The patient may need to be resampled if an ESR test is necessary.

ADDITIONAL PREVENTATIVE MAINTENANCE

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Tubing Change

After 200 hours of continuous pump use, miniiSED will notify the user that a "Tubing Change is Required". This message only serves as a warning and does not prevent the analyzer from operational use.

30,000 Test Aspirations

After 30,000 aspirations, miniiSED will alarm and notify the user to contact ALCOR Scientific Technical Support. This message only serves as a warning and does not prevent the analyzer from operational use.

US customers, contact ALCOR Scientific Technical Support for instructions and parts for items that should be replaced.

Customers outside of the US, please contact your local distributor.

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SYSTEM STATUS, ERROR CODES, AND WARNING MESSAGES

Different messages display in the status window of the Home Screen as the system is processing specimens.

In the event of a system warning or error, an alert will appear on the instrument's screen.

Refer to the miniiSED Operator's Manual for a full list of system status messages and error messages with resolutions.

FOR US Customers, ALCOR Scientific Technical Support is available via phone and email.

(401) 737-3774
(800) 495-5270
techservice@alcorscientific.com

Customers outside of the US, please contact your local distributor.

THANK YOU!

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