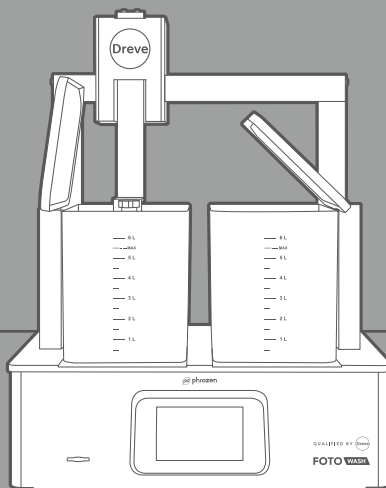


# FotoWash User Manual

QUALIFIED BY 

**FOTO WASH**



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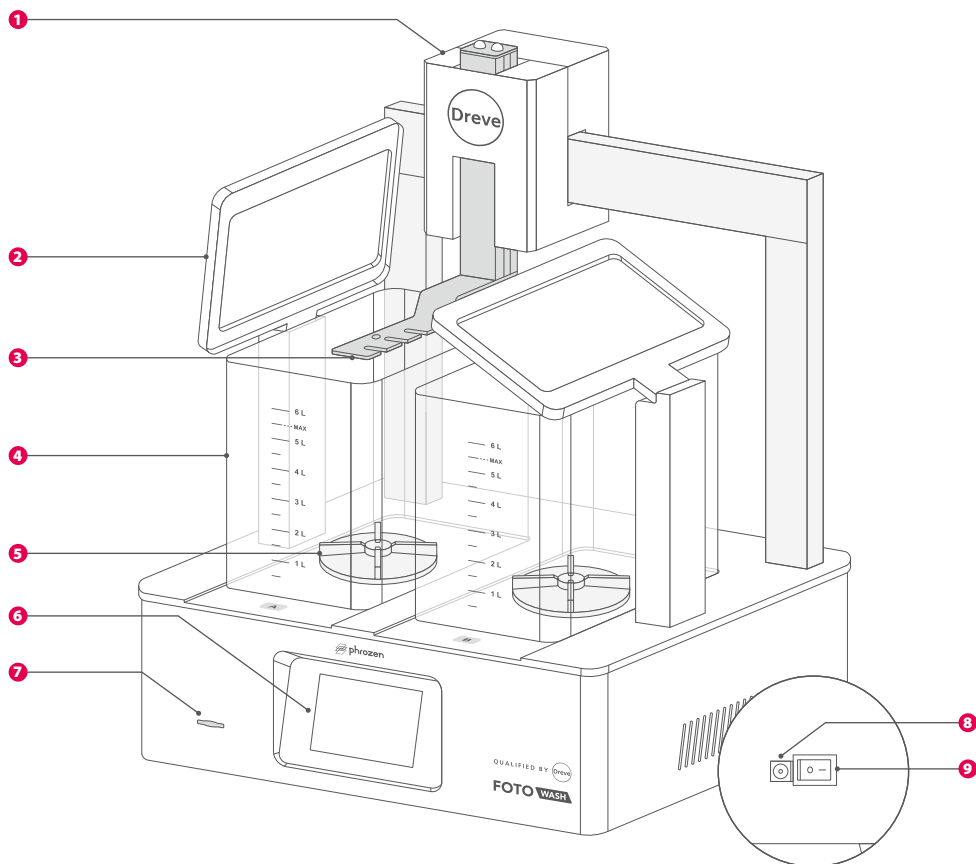
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# 01 Introduction

In this section, you will find essential information about the FotoWash and the related safety precautions.

## 1.1 Components

- |                       |                      |                              |
|-----------------------|----------------------|------------------------------|
| <b>1</b> Slider       | <b>4</b> Wash Bucket | <b>7</b> SD Card Slot        |
| <b>2</b> Bucket Lid   | <b>5</b> Impeller    | <b>8</b> DC Power Input Port |
| <b>3</b> Plate Holder | <b>6</b> Touch Panel | <b>9</b> Power Switch        |



## 1.2 Specifications

<b>Rated Power</b>	Max 48 W
<b>Power Requirement</b>	24 V DC ; 2A
<b>Product Dimensions</b> W x D x H ( Min-Max )	43 x 48 x ( 68~81 ) cm
<b>Bucket Dimensions</b> W x D x H	15 x 25 x 19 cm
<b>Net Weight</b>	16.5 kg

\* All specifications have been tested in a laboratory. Certain specifications are subject to change without prior notice. For the latest update, please refer to Phrozen Dental official website.

## 1.3 Safety Precautions

### Electrical Safety

- Ensure the power cord and plug are in good condition and free from fraying or damage before use.
- Always use the power cord provided with the machine to ensure proper operation and safety.
- Unplug the machine when not in use and before performing any cleaning or maintenance.

### Handling Solvents

- Use only in a well-ventilated area to avoid inhaling solvent fumes.
- Keep the bucket lids closed to prevent solvent from evaporating after use.
- Do not use substances other than cleaning solvent in the wash bucket.
- If you come into contact with resin or cleaning solvent, rinse immediately with copious amounts of water.
- Store solvents in a cool, dry place away from direct sunlight.

### Personal Safety

- Wear personal protective equipment, including goggles, gloves, masks, and long-sleeved clothing when using the device.
- Avoid direct skin contact to prevent allergic reactions.
- Keep the machine and cleaning solvents out of reach of children and pets.

### Operation

- Place and operate the device on a clean, level surface.
- Do not remove the build plate from the wash bucket until the washing session has been properly terminated.
- Ensure the model is adequately drip-dried and free of resin droplets before proceeding.
- Maintain a well-ventilated work area.
- Keep the device away from open flames, heat sources, and sparks to prevent fire or explosion.
- Do not operate the machine if any electrical components are wet or damaged.

### Maintenance and Inspection

- Regularly inspect the machine for leaks or damage and address any issues promptly.
- Replace any worn or damaged components to maintain safe operation.

## 02 Preparation

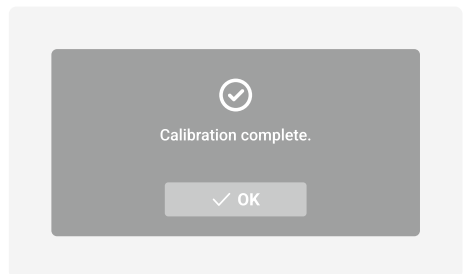
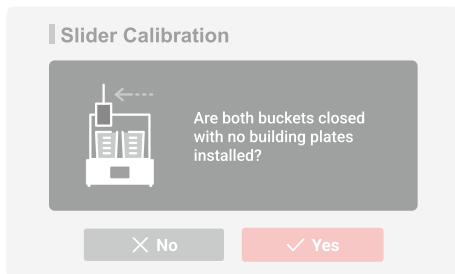
This section provides details on slider calibration, firmware updates, and managing the cleaning solvent.

### 2.1 Slider Calibration

The FotoWash requires slider calibration after each startup.

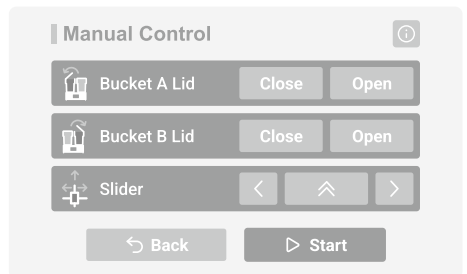
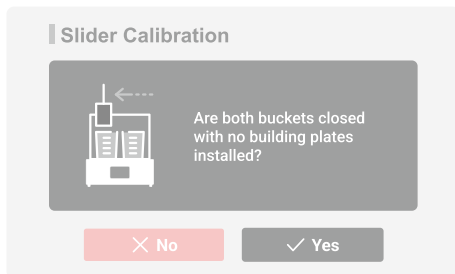
- The plate holder is at the topmost position.
- The building plate has been removed.
- Both lids are closed.
- The slider is positioned above Bucket A.

Ensure all conditions are met, then tap **Yes** to allow the FotoWash to perform the calibration automatically.



#### Note :

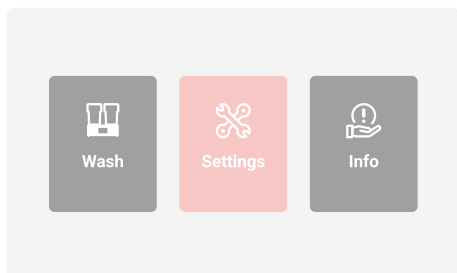
- If the FotoWash does not meet the conditions for slider calibration, select **No** and continue to manually adjust the device before returning to the slider calibration.



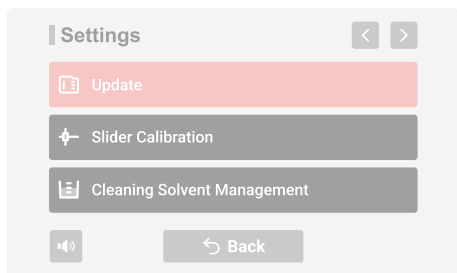
## 2.2 Firmware Update

Keep your FotoWash up-to-date by following these steps to update the firmware using an SD card. For a smooth update, follow the instructions below.

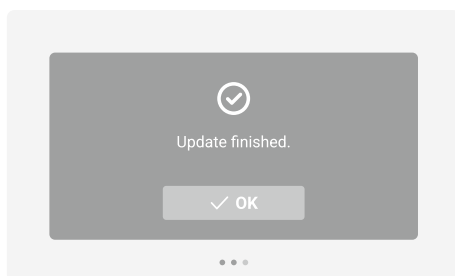
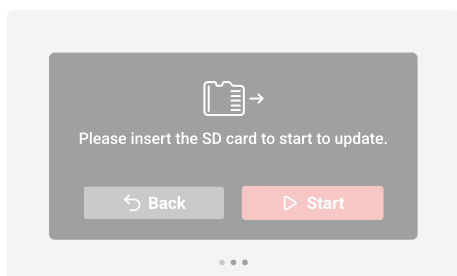
- 1 Navigate to the **Settings** menu.



- 2 Select **Update** on the second page.



- 3 Insert the SD card with update files and tap **Start** to begin the update process.



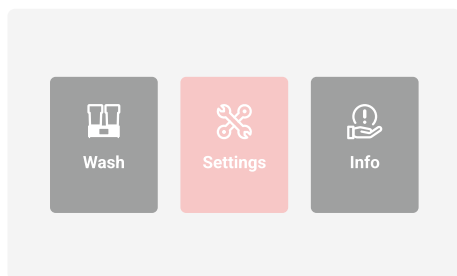
## 2.3 Cleaning Solvent Management

In this section, you will find information on the streamlined process for managing the solvent in your buckets, such as initial filling, refilling, and changing after use.

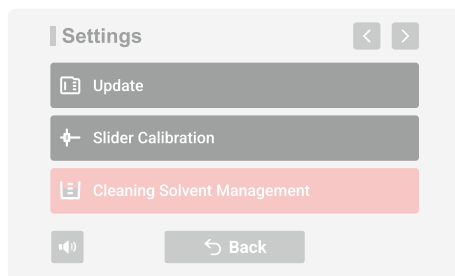
**Note :**

Ensure the building plate is removed before proceeding.

1 Navigate to the **Settings** menu.



2 Select **Cleaning Solvent Management** on the second page.



3 Follow the instructions to manage the solvent in Bucket B first, then in Bucket A.



## 03 Operation

### Note :

All washing profiles on the FotoWash require both buckets. The cleaning cycle begins with Bucket A on the left and then moves to Bucket B on the right to complete the process.

### 3.1 Imported Profiles

#### • Creating Wash Profiles

1 Open `settings.csv` from the `Import` folder on the SD card using your computer.



2 Modify the settings in settings.csv to configure the wash profile according to your preferences.

	A	B	C	D	E	F	G	H	I
1	Number	Company	Resin	Bucket A Wash Speed	Bucket A Wash Time	Bucket A Drip Dry Time	Bucket B Wash Speed	Bucket B Wash Time	Bucket B Drip Dry Time
2	1	Dreve	1	1	15m	60s	5	15m	60s

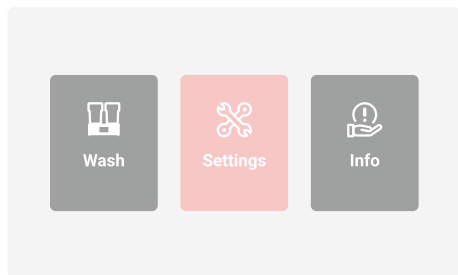
### Note :

Follow these guidelines when configuring the profiles:

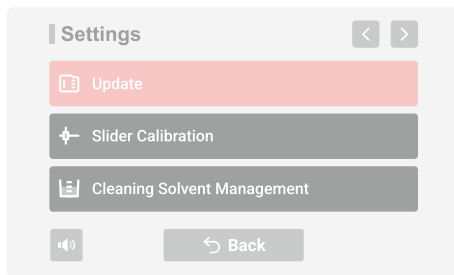
- Do not leave a space between the number and the unit.
- Use the following abbreviations for units:
  - **s** for seconds
  - **m** for minutes
- The minimum wash time is 10 seconds.
- The minimum drip dry time is 5 seconds.
- If the input value is below the minimum or incorrectly formatted, the system will use default values.

## • Importing Profiles into the Device

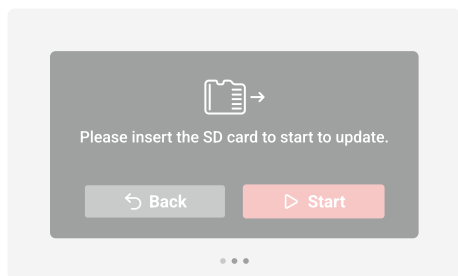
1 Navigate to the **Settings** menu.



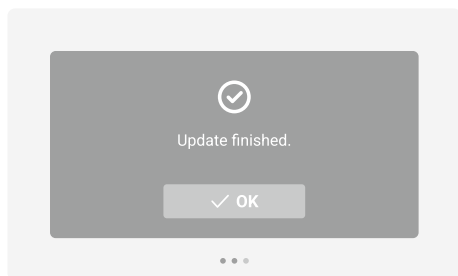
2 Select **Update** on the second page.



3 Insert the SD card and tap **Start** to begin the update process.



4 The imported profiles are transferred to your device once the update is completed.

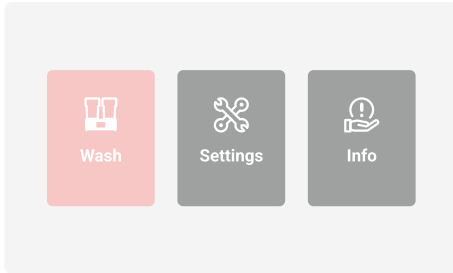




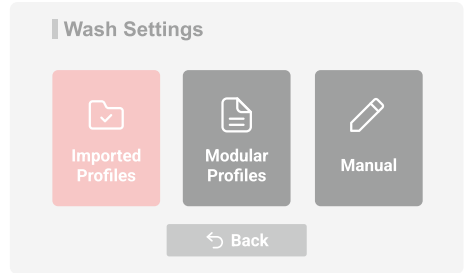
## • Using Imported Wash Profiles

To wash using the **Imported Profiles** after loading them to the FotoWash, follow the steps below.

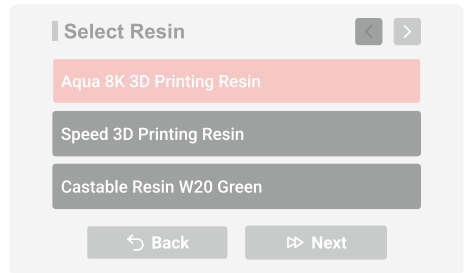
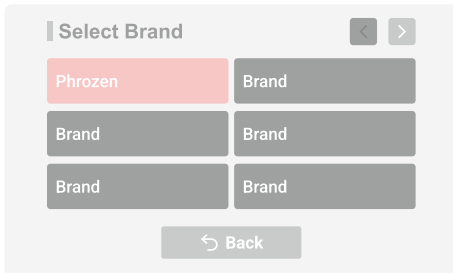
1 Navigate to the **Wash** menu.



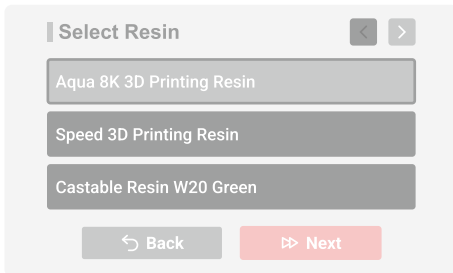
2 Choose **Imported Profiles** to view the wash settings you have set up on the computer.



3 Select the desired settings by choosing **Brand** and **Resin**.



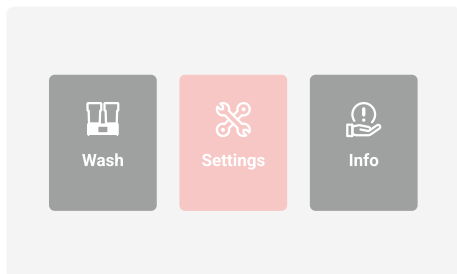
4 Tap **Next** to confirm your selection and start the wash process.



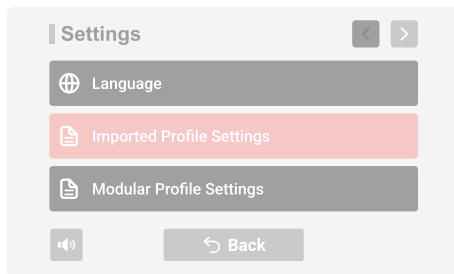
- **Deleting Brands from Imported Profiles**

To delete **Brands** from the **Imported Profiles**, follow the steps below.

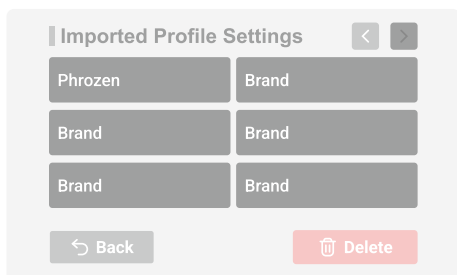
1 Navigate to the **Settings** menu.



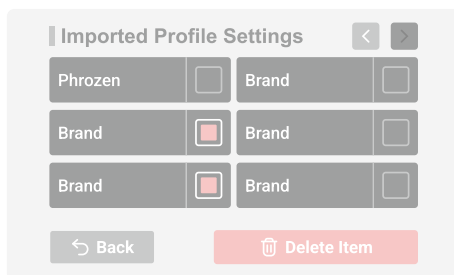
2 Select **Imported Profile Settings**.



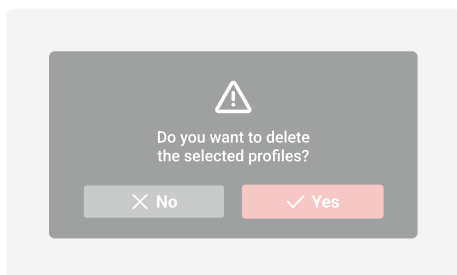
3 Tap **Delete**.



4 Choose the **Brands** you wish to delete and tap **Delete Item**.



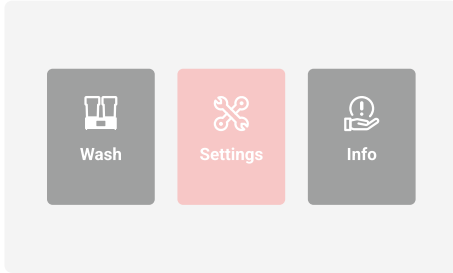
5 Tap **Yes** to confirm.



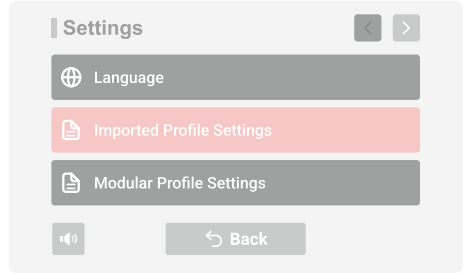
## • Deleting Resins from Imported Profiles

To delete **Resins** from the **Imported Profiles**, follow the steps below.

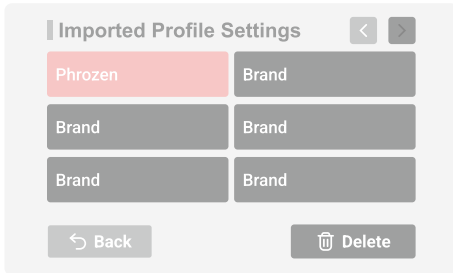
1 Navigate to the **Settings** menu.



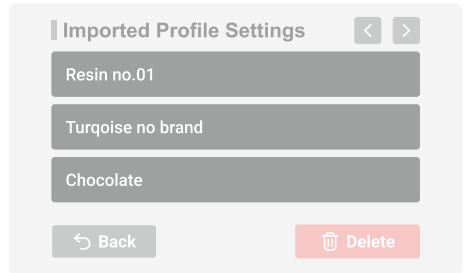
2 Select **Imported Profile Settings**.



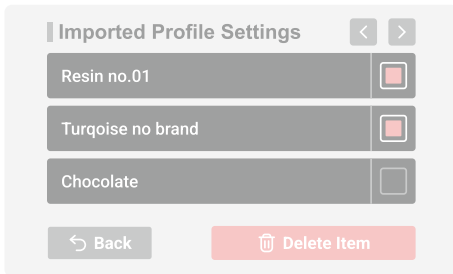
3 Choose the **Brand** to find the desired **Resin**.



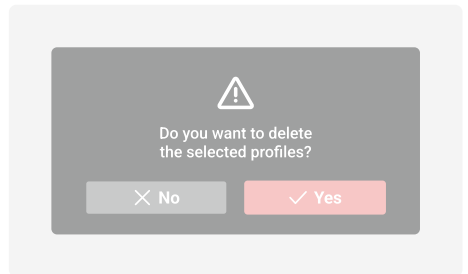
4 Tap **Delete**.



5 Choose the **Resins** you wish to delete and tap **Delete Item**.



6 Tap **Yes** to confirm.



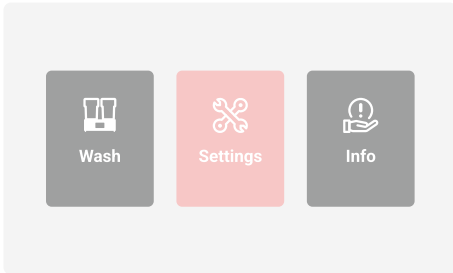
## 3.2 Modular Profiles

- **Configuring Modular Profiles**

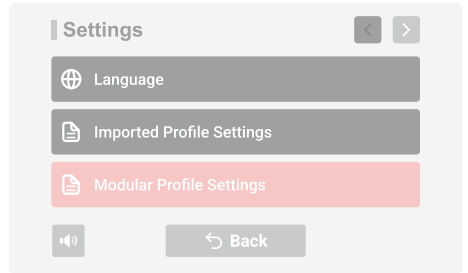
**Note :**

You can create a maximum of 50 Modular Profiles.

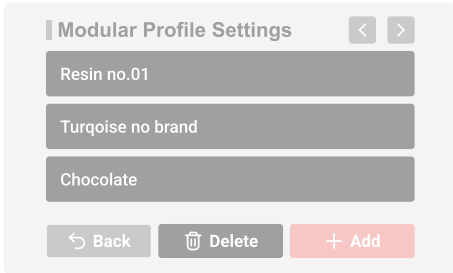
1 Navigate to the **Settings** menu.



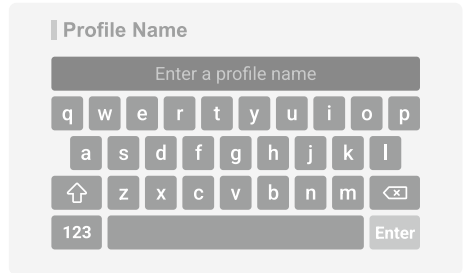
2 Select **Modular Profile Settings**.



3 Tap **Add** to create a new profile.

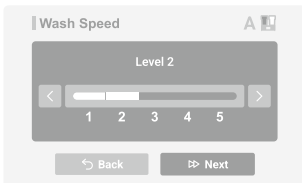


4 Enter a **Name** for the profile.

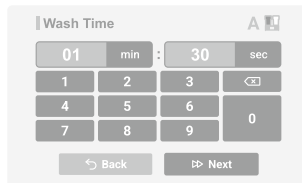


5 Configure the parameters for Bucket A.

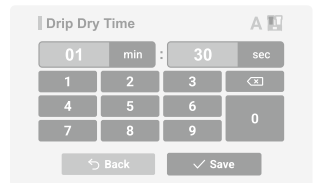
### Wash Speed



### Wash Time



### Drip Dry Time

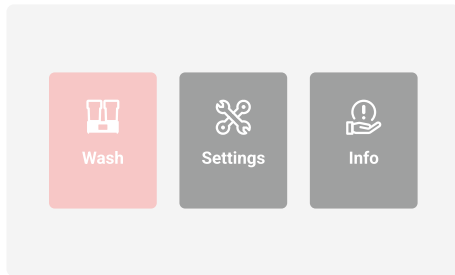


6 Configure the parameters for Bucket B.

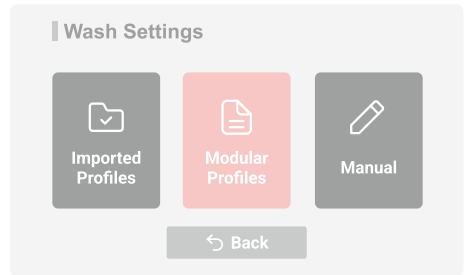


### • Using Modular Wash Profiles

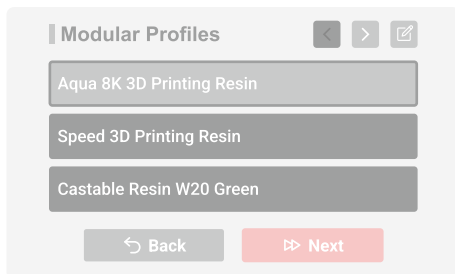
1 Navigate to the **Wash** menu.



2 Select **Modular Profiles**.



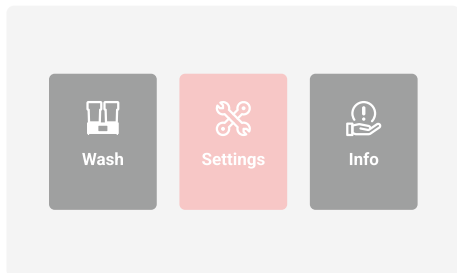
3 Select the desired profile and tap **Next** to start the wash process.



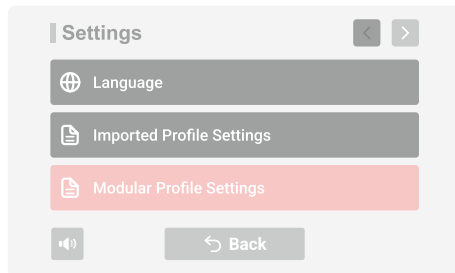
## • Deleting Modular Profiles

To delete **Modular Profiles**, follow the steps below.

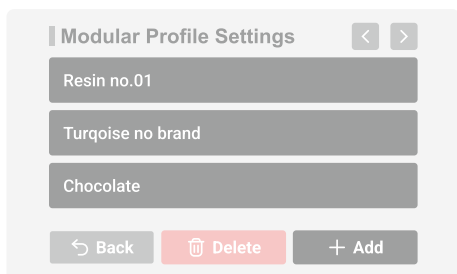
1 Navigate to the **Settings** menu.



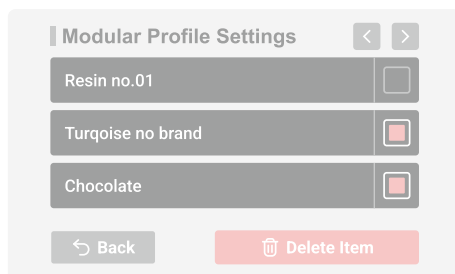
2 Select **Modular Profile Settings**.



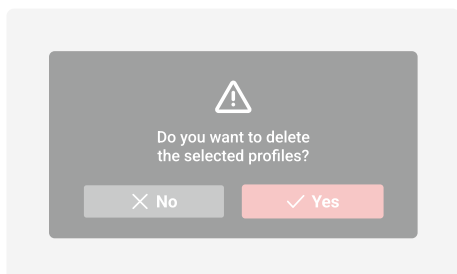
3 Tap **Delete**.



4 Choose the profiles you wish to delete and tap **Delete Item**.



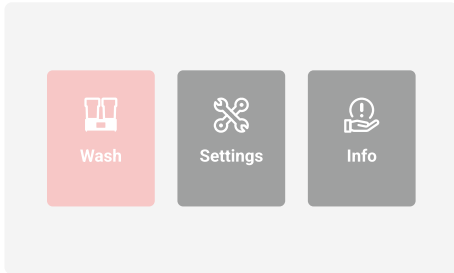
5 Tap **Yes** to confirm.



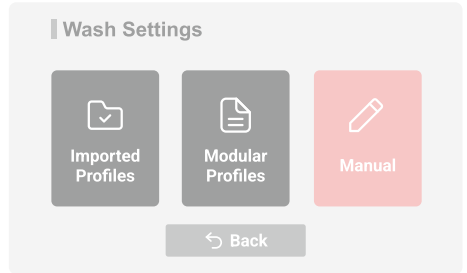
### 3.3 Manual Profile

- **Configuring and Using the Manual Wash Profile**

1 Navigate to the **Wash** menu.

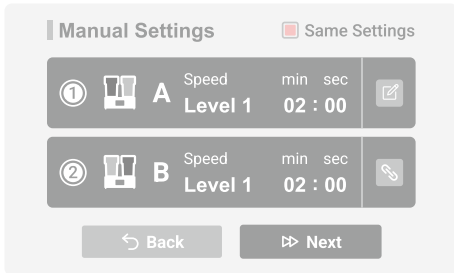



2 Select **Manual** to customize the settings for an individual washing session.

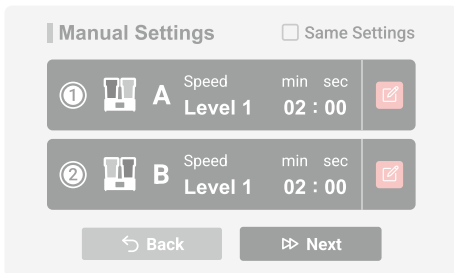


**Note :**

To apply the same settings to both buckets, check the box labeled **Same Settings**.



3 Tap  to configure the settings for the selected bucket.



4 When ready, tap **Next** to start the wash process.

