ONULIS

CleanPoint

User Guide

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Except as provided in Onulis' standard terms and conditions of sale, Onulis shall not be responsible for any loss resulting from any use of products described herein.

WARRANTY

The CleanPoint comes with a 1-Year of Email Support. The Warranty only applies to the CleanPoint machine. All replacement parts are covered for the 30 days or by the remaining time in an existing Warranty, whichever is greater. Warranty is voided by improper use, physical damage, or incorrect electrical connection.

DISCLAIMER

User acknowledges that the contents of this document and all Onulis products are subject to its standard terms and conditions of sale, available at https://onulis.com/legal/terms-and-conditions-of-sale, and incorporated herein by reference.

TABLE OF CONTENTS

To ensure proper use of your Onulis system, please read through the entire User Guide prior to machine installation and operation.

For any questions about your purchase, please reach out to the following:

- **General Inquiries:** info@onulis.com
- **Support Request:** maintenance@onulis.com
- **Purchases:** orders@onulis.com

CLEANPOINT PROCESS

CleanPoint cleans parts through a vortical and plunging motion. It is approved for all P3/P3/DLP materials, and its process was validated by major material manufacturers. The Automatic Cleaning Procedure controls solvent exposure and allows system operators to focus on higher-priority tasks. All recommended Cleaning Times are available on the Onulis website.

WARNING LABELS

SYMBOL	MEANING
	Wear protective nitrile or neoprene gloves when handling solvents and operating CleanPoint.
	Wear protective goggles when handling solvents and operating CleanPoint.
	Vapors from solvents can irritate the respiratory system. Wear a mask while handling solvents and operating CleanPoint.
	Do not overfill. This device uses flammable solvents. By using CleanPoint you are accepting all potential liabilities.

SAFETY PRECAUTIONS

Solvent Handling

- Do not overfill system or spill solvents. Serious damage can occur. Use caution when handling solvents. This device uses flammable solvents. By using this device, you are accepting all potential liabilities.
- Some solvents and fumes are flammable. Use caution when handling. Do not overfill system or spill solvents. Do not use system when power cord is damaged.
- Always wear safety goggles, nitrile or neoprene gloves, and a proper face mask when handling solvents and resin.
- Avoid direct skin contact to prevent allergic reactions.
- If you come into contact with resin or a cleaning solvent, rinse immediately. Any contaminated clothing should be professionally cleaned; do not wash at home. Absorbed resin may re-expose user when items are worn.
- Vapors can be irritating to the respiratory system. If irritation occurs, seek fresh air immediately.
- Keep the system and solvents away from areas where food or beverages are stored, prepared, or consumed, as well as out of reach of children and pets.
- Keep the Tank Lids closed to prevent solvent from evaporating after use.
- Do not use substances other than cleaning solvent in the Tanks.
- Store solvents in a cool, dry place away from direct sunlight.

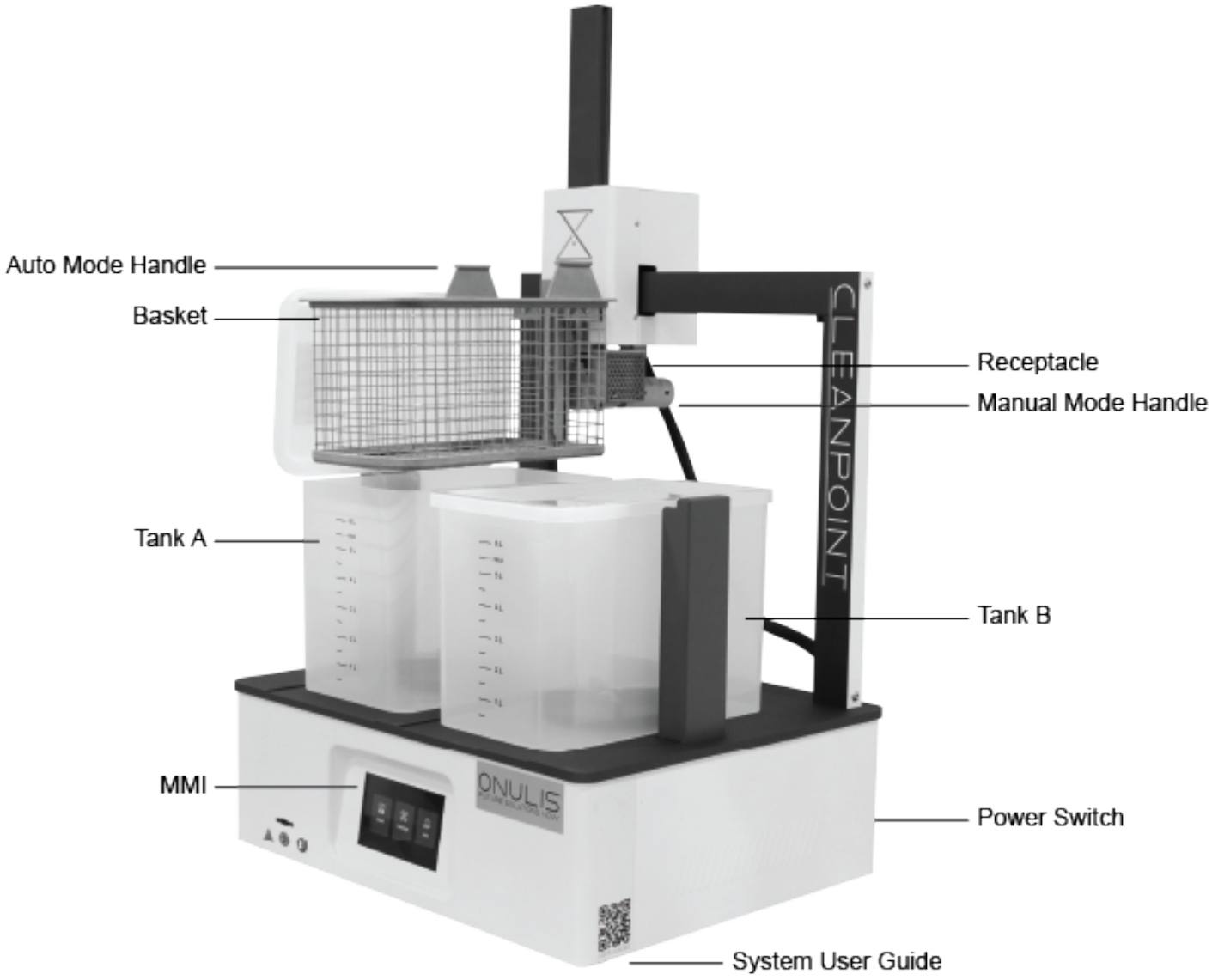
Power

- Ensure the power cord and plug are in good condition and free from damage before use. Do not use if cord is damaged.
- Unplug the machine when not in use. Unplug the machine before performing any cleaning or maintenance.
- Always use the power cord provided with the machine to ensure proper operation and safety.
- Keep the power cord away from high temperatures and/or water.
- Do not operate the machine if any electrical components are wet or damaged.
- For use in the United States, use included power adapter.

Machine Operation

- Maintain a well-ventilated work area. A fume hood is highly recommended. Always follow the ventilation requirements set forth by the solvent manufacturer.
- Keep the device away from open flames, heat sources, and sparks to prevent fire or explosion.
- Regularly inspect the machine for damage. Do not use system if damaged.
- Immediately unplug machine if solvents are spilled on machine surface to avoid hazards.
- Do not remove part(s) from the Tank until the washing session has stopped all motions. Be cautious of any programmed motion occurring.
- Ensure part(s) are adequately drip-dried and free of resin or solvent droplets before proceeding.
- This machine has been designed for indoor and non-extreme temperature conditions only. Store and operate machine in 65 – 95°F (18 – 35°C) temperatures.
- Place and operate the device on a clean, level surface.

MACHINE OVERVIEW



DEFINITIONS

Term	Definition
Tank A	Left cleaning tank; “Dirty Tank.”
Tank B	Right cleaning tank; “Clean Tank.”
Wash Speed	Speed which impellers move during Cleaning Cycle.
Wash Time	Amount of time on Cleaning Cycle.
Drip Dry Time	Amount of time parts drip dry in between cleaning tanks.
Automatic Cleaning of Validated Materials	Standard – For part(s) that fit in Basket and are fully submerged in solvent.
Manual Cleaning of Validated Materials	For large part(s) that do not fully fit in Basket or are not fully submerged in solvent.
Manual Programming of Unvalidated Materials	For all materials that are not validated by Onulis through the material manufacturer.

INSTALLATION GUIDE

1. Unbox product. Remove all packaging materials from outside and inside machine. Ensure components of package.

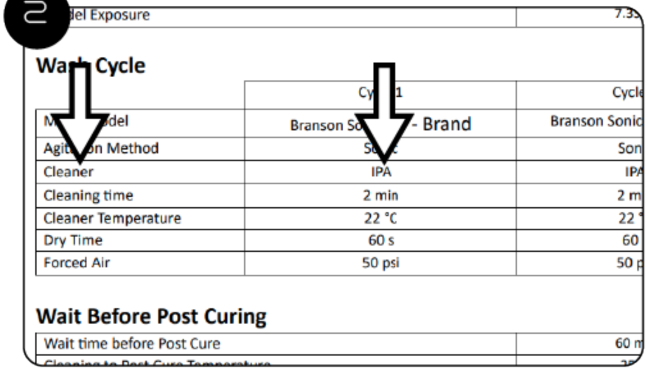
2. Put CleanPoint on a flat, solid table. The system must be at least 6 inches away from a wall.

3. Plug in power cord.
   System Power Rating: 100 – 240V ~50/60Hz 1.5A

1

Power on system.

2



...del Exposure		7.3...

Wa... Cycle

	Cy... 1	Cycl...
M... del	Branson So... - Brand	Branson Sonic...
Agit... on Method	S...	Son...
Cleaner	IPA	IPA
Cleaning time	2 min	2 m...
Cleaner Temperature	22 °C	22...
Dry Time	60 s	60
Forced Air	50 psi	50 p...

Wait Before Post Curing

Wait time before Post Cure	60 m...

Read the material manufacturer's specification sheet to determine the correct solvent for each material being cleaned.

3

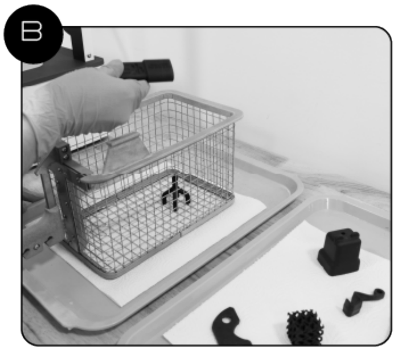
Fill System with the appropriate level of the recommended solvent. It is <u>very important</u> that you do not overfill.

To fill, follow steps A - E below.

A

Scan the Fill Level Guide on the Tanks.

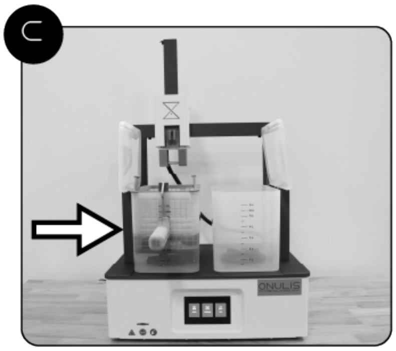
B



Place part(s) in Basket and Basket in Tank A.

<u>IMPORTANT</u>: Leave space between each part. Do not stack.

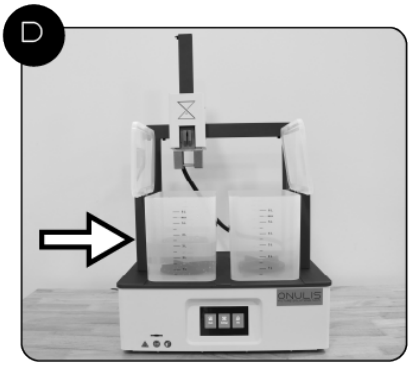
C



Fill Tank A with solvent such that the solvent level is 0.5 inches above your highest part.

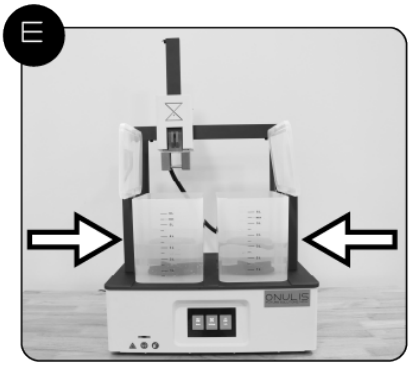
<u>VERY IMPORTANT</u>: DO NOT FILL TANK PAST "MAX" FILL LEVEL INDICATED ON TANKS.

D



Remove Basket from Tank A. Note Fill Level.

E



Fill Tank B with the same amount of solvent as Tank A without Basket and parts. If needed, use Extraction Tool to extract solvent to level.

4

Determine which cleaning procedure and go to the corresponding section.

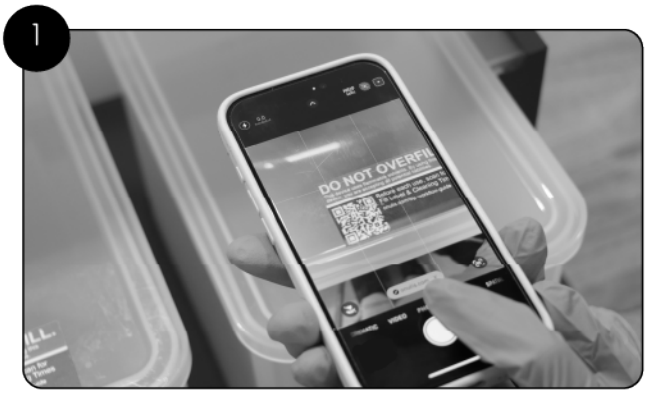
a. **Automatic Cleaning of Validated Materials**: Standard – For part(s) that fit in Basket and are fully submerged in solvent.

b. **Manual Cleaning of Validated Materials**: For large part(s) that do not fully fit in Basket or are not fully submerged in solvent. Typically, when a part is >9 in. long.

Note: For Custom Programming of materials not validated by Onulis through the Material Manufacturer, first see the Custom Programming section.

AUTOMATIC CLEANING OF VALIDATED MATERIALS

1

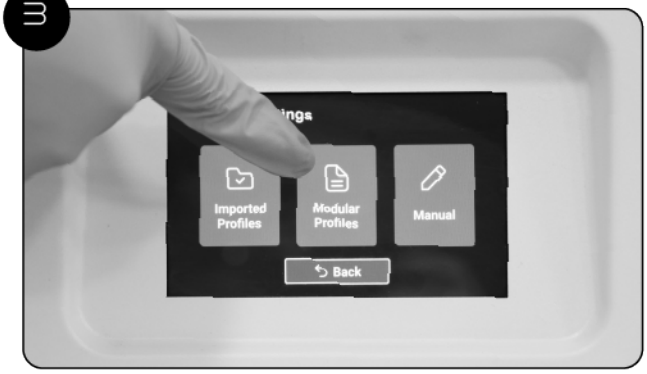


Scan QR code on front of system to access the P3/P3/DLP Workflow Guide for Validated Materials. Select your material to see its recommended Program and cleaning time.
URL: https://onulis.com/P3/P3/DLP-workflow-guide

2

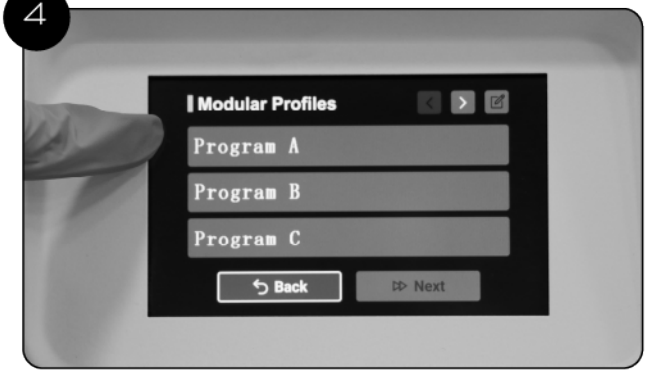
Select Wash on system screen.

3



Select Modular Profiles.

4

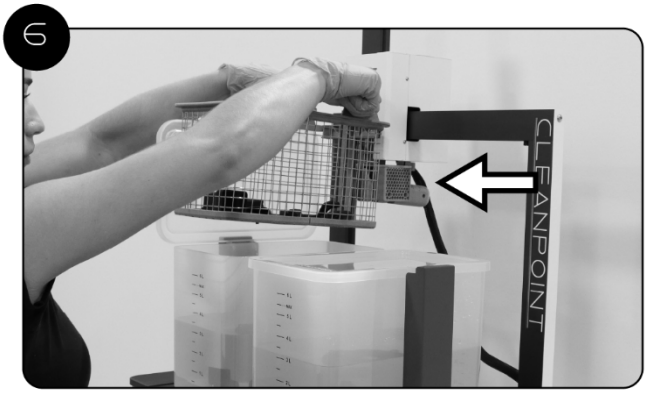


Select Program, as noted in the P3/P3/DLP Workflow Guide.

5

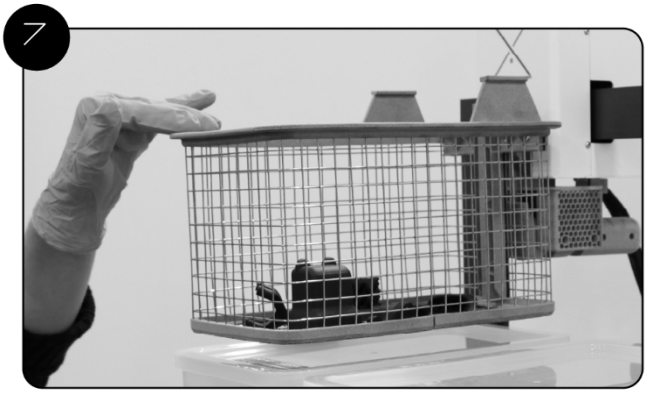
Automatic calibration will occur.

6



When system prompts to Install Build Plate, install Basket. To do so, hold Auto Mode Handles, with the Manual Mode Handle facing the back of the system. Slide Manual Mode Handle into Receptacle. Line up Manual Mode Handle with metal hooks. Manual Model Handle will lock into place.

7



To confirm Basket is locked, press lightly on the front, top edge of the Basket. There should be a slight bend, then resistance. Mild side-to-side movement is normal.

8

Select Start to begin cleaning cycle.

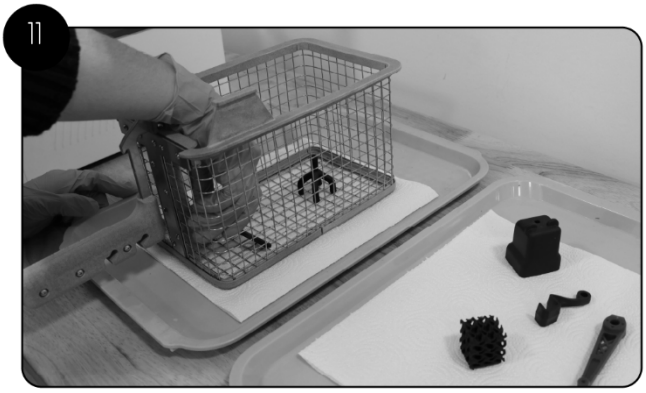
9

Automatic cleaning will begin. Part(s) will go through automated cleaning cycle in both Tank A and Tank B. When the cycle is complete, part(s) will automatically lift from Tank B and begin to dry.

10

Remove Basket. Hold Auto Mode Handles, slowly lift up at a 45° angle while pulling forward.

11



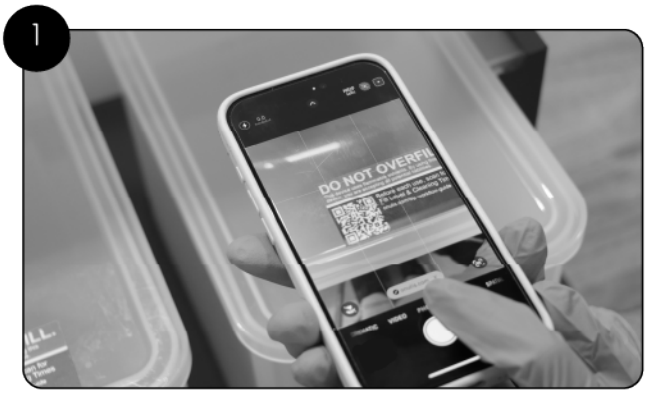
Remove part(s) from Basket. Dry parts with compressed air for 10 – 60 seconds. Allow parts to air dry for a minimum of 1 hour after cleaning to ensure complete solvent evaporation. For parts that underwent a 5-minute or more cleaning, extend the drying time to at least 3 hours. See Onulis website for recommended UV Curing times.

12

Power-off CleanPoint.

Important: Leave Tank Lids closed to prevent solvent evaporation.

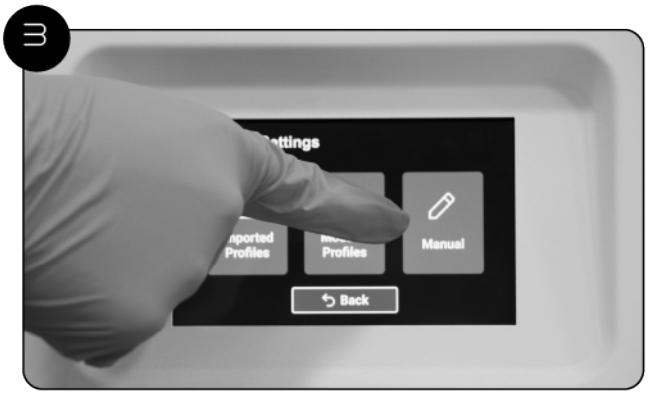
MANUAL CLEANING OF VALIDATED MATERIALS



Scan QR code on front of system to access the P3/P3/DLP Workflow Guide for Validated Materials. Select your material to see its recommended Program and cleaning time.

URL: https://onulis.com/P3/P3/DLP-workflow-guide

Select Wash on system screen.



Select Manual.

Select the pencil icon and configure settings for Tank A.

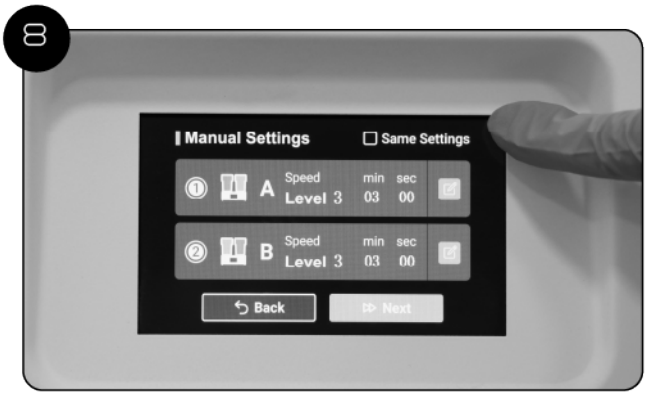
Input Wash Speed. Wash Speed will adjust the intensity of the system impellers. Level 3 is recommended for most part(s). However, if part(s) are delicate, decrease speed and increase wash time.

Input Wash Time, as per the Onulis P3/P3/DLP Workflow Guide. Reminder, when part(s) are not fully submerged in solvent, double recommended Wash Time.

7

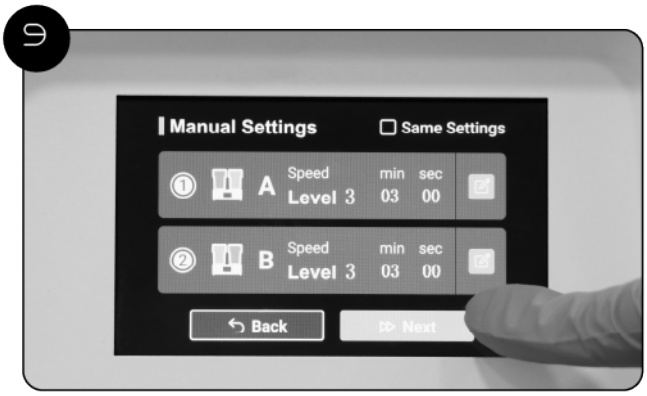
Input Drip Dry Time. This is the amount of time the Lid will stay open after cycle is complete. A 30 second Drip Dry for most part(s) is recommended. Adjust based on part complexity. Select Save to save settings.

8



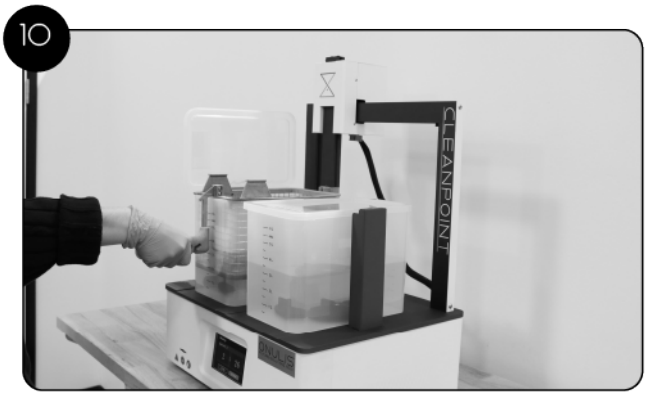
Repeat process for Tank B, or select the box labeled Same Settings to apply the same settings to Tank B.

9



Select Next to begin the cleaning process. Automatic calibration will occur.

10

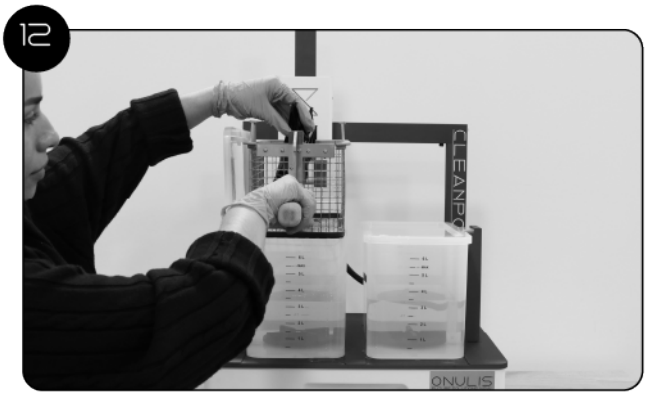


When system prompts Install Build Plate, hold Manual Mode Handle and insert Basket into Tank A.

11

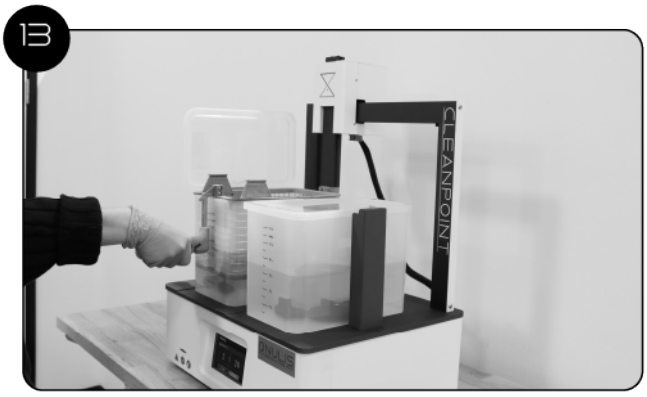
Select Start to begin cleaning cycle.

12



Halfway through the cleaning cycle, pause system. Lift Basket out of Tank A and rotate part(s) to fully submerge.

13

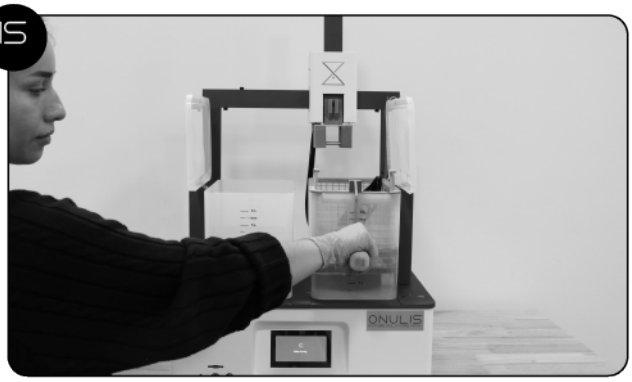


Insert Basket in Tank A and un-pause cleaning.

14

When the cleaning cycle ends, hold Manual Mode Handle and lift Basket above Tank A. Let part(s) Drip Dry.

15

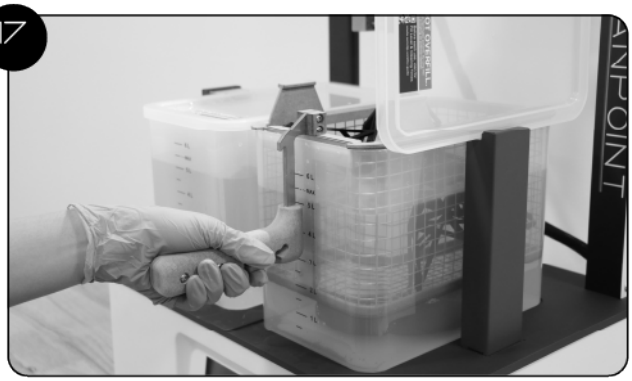


When the Lid on Tank B opens, insert Basket in Tank B.

16

Halfway through the cleaning cycle, pause system. Lift Basket out of Tank B and rotate part(s) to fully submerge.

17

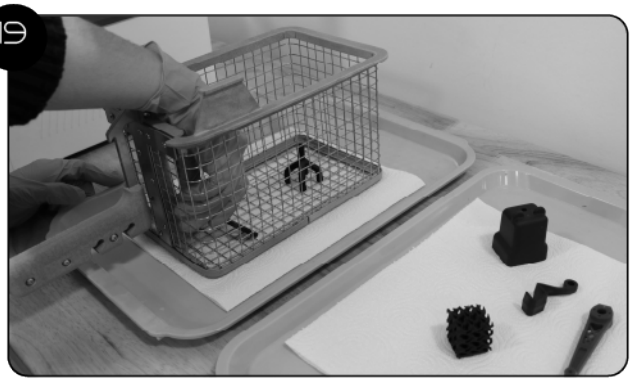


Insert Basket in Tank B and un-pause cleaning cycle.

18

When cleaning cycle ends, hold Manual Mode Handle and lift Basket above Tank B. Let part(s) Drip Dry.

19



Remove part(s) from Basket. Remove part(s) from Basket. Dry parts with compressed air for 10 – 60 seconds. Allow parts to air dry for a minimum of 1 hour after cleaning to ensure complete solvent evaporation. For parts that underwent a 5-minute or more cleaning, extend the drying time to at least 3 hours. See Onulis website for recommended UV Curing times.

20

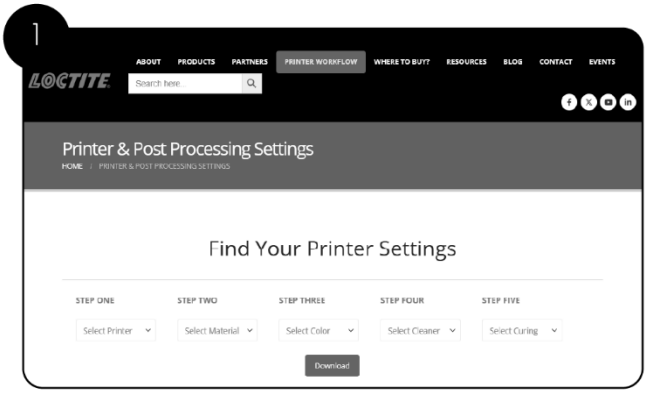
Power-off CleanPoint.

Important: Leave Tank Lids closed to prevent solvent evaporation.

CUSTOM PROGRAMMING

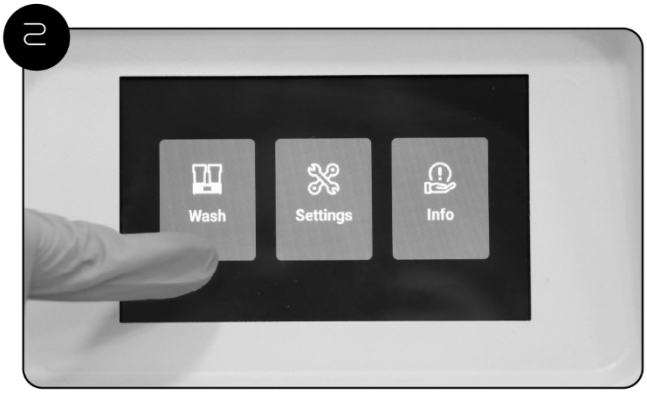
For all materials that are not validated by Onulis through the material manufacturer.

1



Read material manufacturer's specifications to determine appropriate wash time.

2



Select Wash on system screen.

3

Select Manual.

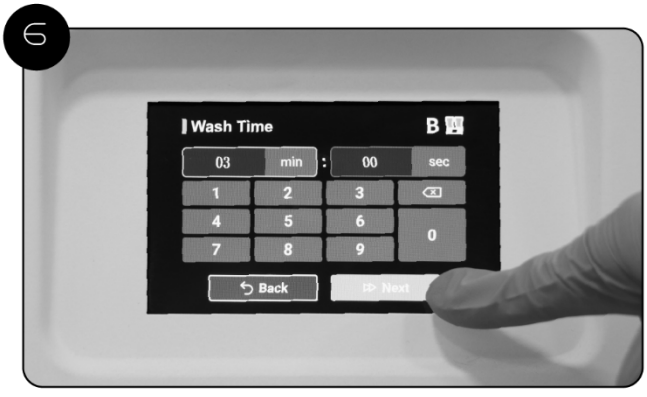
4

Select the pencil icon to configure settings for Tank A.

5

Input Wash Speed. Wash Speed will adjust the intensity of the system impellers. Speed 3 is recommended for most part(s). However, if part(s) are delicate, decrease speed and increase wash time. Select Next.

6



Input Wash Time, as per the material manufacturer's specifications. Remember, when part(s) are not fully submerged in solvent, double recommended Wash Time. Select Next.

7

Input Drip Dry Time. This is the amount of time the Lid will stay open after cycle is complete. A 30 second Drip Dry for most part(s) is recommended. Adjust based on part complexity. Select Save to save settings.

8

Repeat process for Tank B, or select the box labeled Same Settings to apply the same settings to Tank B.

9

Click Next. Install Build Plate will prompt on screen.

10

For Automatic Cleaning, see Step 6 on Page 9.

For Manual Cleaning, see Step 10 on Page 12.

GENERAL TROUBLESHOOTING

Filling Tanks

- Do not overfill Tanks. CleanPoint uses flammable solvents. By using this device, you are accepting all potential liabilities.

Part Cleaning

- Do not stack parts.
- Do not overfill Tanks.
- For complex part(s), make sure any inner cavities are exposed to the vortex created by the impeller.
- If part(s) are not fully cleaned after using CleanPoint, replace solvents in Tanks. Always unplug the unit before emptying Tanks. Dispose of solvents per local regulations.

System Error

- Remove Basket and run calibration.
- Restart.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