

Photocentric

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DISPOSAL INSTRUCTIONS

Do not throw this electronic device into the waste when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle or return to Photocentric for recycling.



Photocentric
WASH 99

USER MANUAL

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- Product Operation – Usage
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Manufacturer
 Photocentric Ltd
 Cambridge House, Oxney Road
 Peterborough, PE1 5YW, UK
 Year of CE Marking: 2019

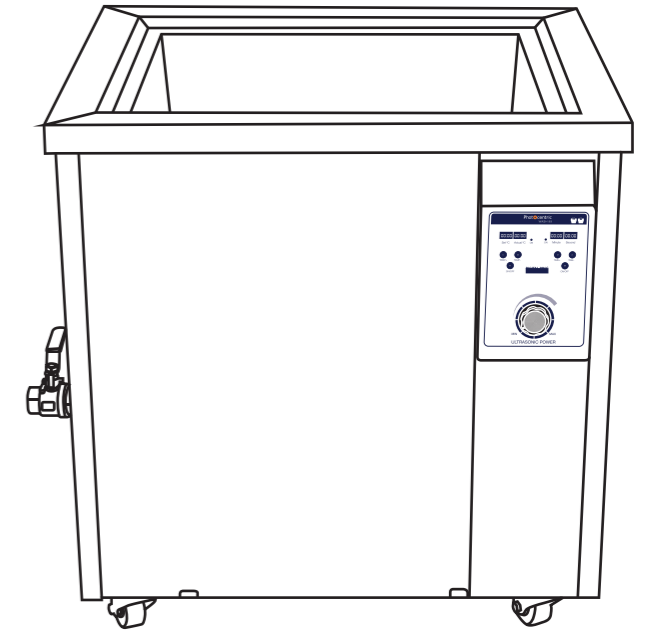
Certifications:
 CE Certified
 WEEE approved
 FCC approved



Thank you for purchasing the Photocentric ultrasonic cleaner, please read all of this instruction manual to ensure you are operating this machine correctly and safely.

If there is any damage to the wire or machine please do not connect it to the power supply, instead contact Photocentric on info@photocentric.co.uk and a member of our team will get back to you.

Safety warnings



All cleaning tanks should be handled with care to ensure maximum performance, please read and understand this user manual before using your ultrasonic cleaner:

- Do not operate if the tank is less than 2/3 full.
- Ensure power is disconnected before attempting to add or remove fluid.
- If pouring fluid away, pour away from the electrical socket on the rear and front control panel.
- Do not let items rest on the base of the bath, always use the basket.
- When submerging parts ensure fluid is not displaced out of the bath.
- Maximum running time for a single cycle is 45 minutes.
- Never drop an item onto the base of the bath.
- Never change the fuse for a higher rated one.
- Do not use flammable materials
- Do not use the product if it is in an unstable condition i.e. susceptible to fire or explosion

We recommend keeping your Photocentric ultrasonic cleaner away from the below conditions:

- High humidity
- Unpredictable fluctuating temperatures, too hot or too cold conditions can affect the functionality and lifespan of the machine.
- Non-stable surfaces
- Corrosive gases
- Loose chemicals, oils and water (not including the cleaner currently being used)
- Where explosives or unstable chemicals are stored

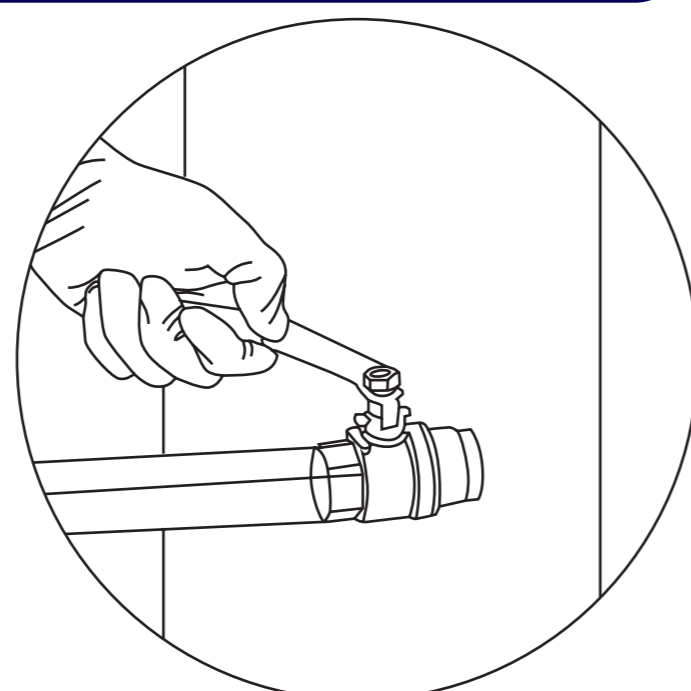
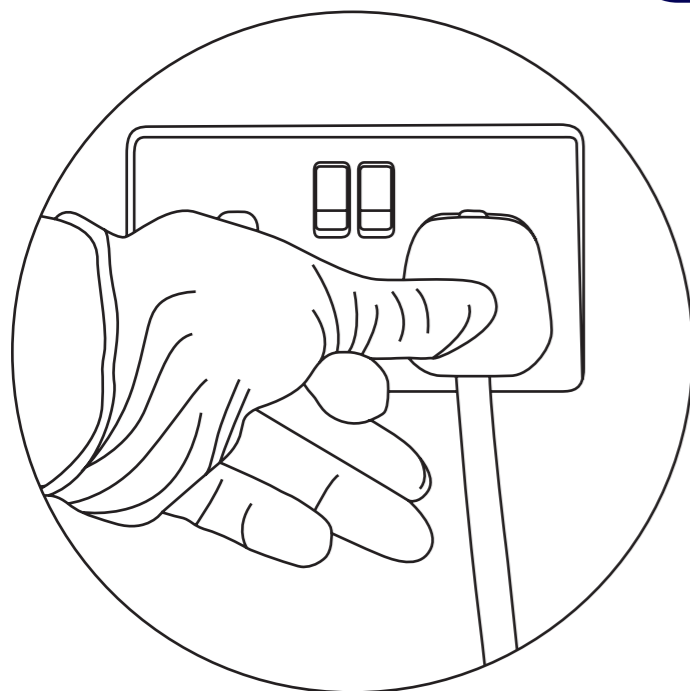
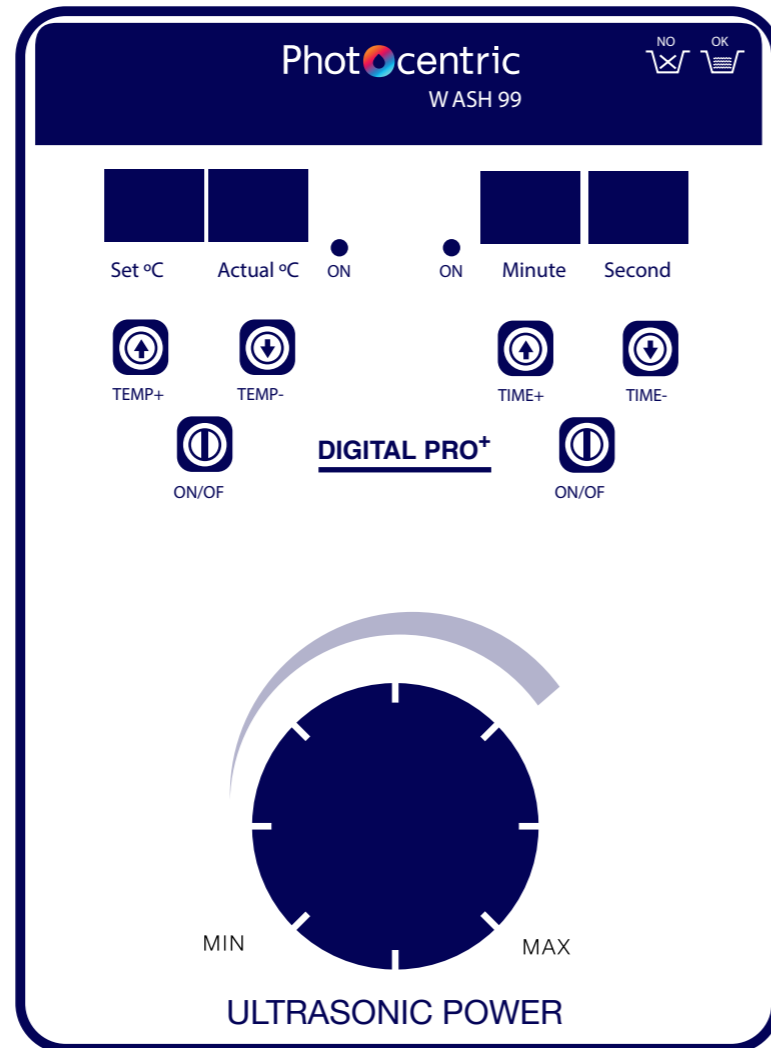
PRODUCT AND ACCESSORIES

Photocentric Ultrasonic wash unit includes the below items:

- Lid
- Tank
- Basket
- Power cable
- Instruction manual
- Outflow valve
- Outflow pipe

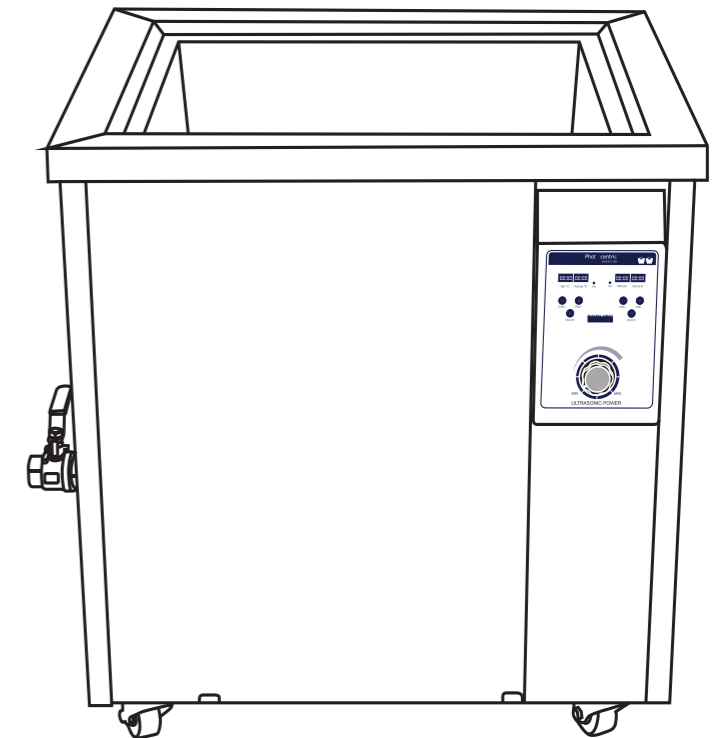
DIAGRAM

- Lid
- Basket
- Tank
- Temperature setting
- Heater switch
- Power line
- Drain valve
- Time and Temperature display
- Time Setting
- Ultrasonic switch



Ultrasonic cleaning principle

The Photocentric wash unit is an ultrasonic cleaner for use in both industrial and domestic usage. Made from high-quality stainless steel plate, the Photocentric wash unit offers a strong ultrasonic power output. Residue resin can be extremely hard to remove by hand; however, it becomes easy with the use of the Photocentric Wash unit and Photocentric Cleaner. All 3D printed parts can be cleaned in the ultrasonic process to remove resin residue, this can be achieved to a 'perfect' condition with the use of Photocentric Cleaner.



Product Operation – Cautions

Please read and follow the guidelines provided whilst operating this machine - if these are not adhered to, they can cause damage to your machine and may invalidate your warranty. Before starting the machine ensure that:

- All buttons and switches are turned off
- Cleaner is present in the tank (2/3rds minimum)
- No liquid has splashed on the electronic parts of the machine
- The power supply is earthed and grounded
- The machine is not moved whilst in use

Product Operation Usage

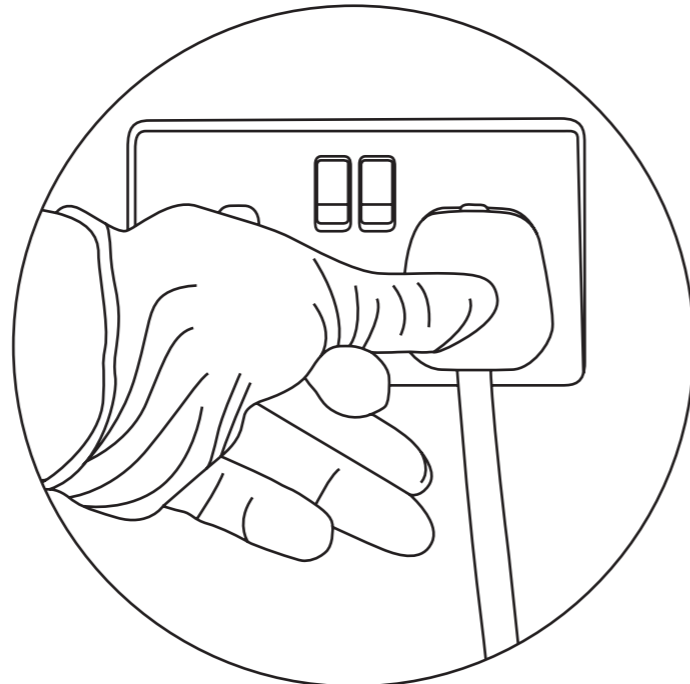
The following instructions will ensure safe and correct use of your Photocentric Wash unit:

- **Step 1:** Place ultrasonic cleaner on a flat, stable surface.

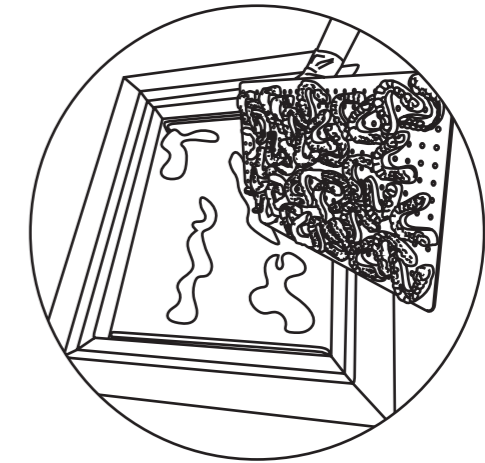
- **Step 2:** Add Photocentric Cleaner to a level where it will not overflow – approximately 2/3 full.



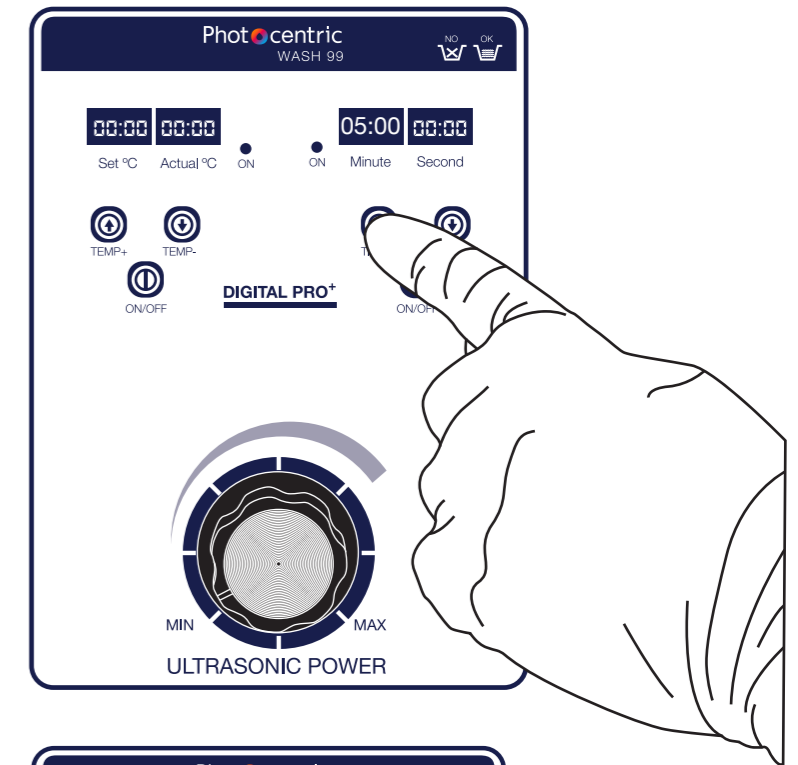
- **Step 3:** Plug in the cleaner and switch on via the switch at the rear of the unit if present, otherwise at the wall socket. (If no buttons are pressed, after eight hours your ultrasonic cleaner will go into power save mode. To restore power, press any button.



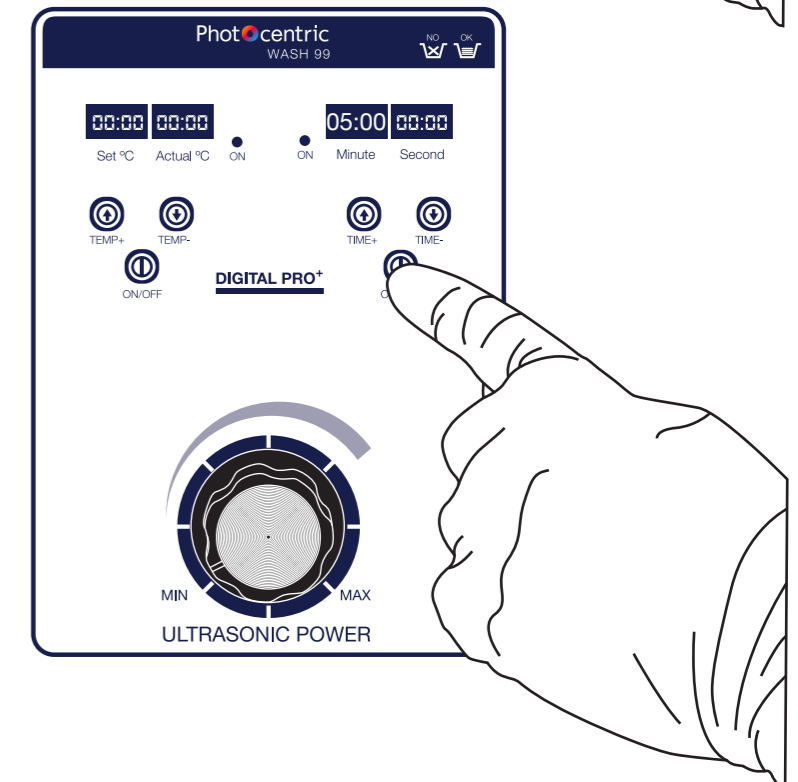
- **Step 4:** Place your printed part or platform into the ultrasonic cleaner. If your Photocentric Cleaner is completely full of liquid with the printed parts immersed then place the lid back on your cleaner to prevent spillage.



- **Step 5:** Set the timer to the relevant settings; we advise a maximum of 5 minutes for most printed parts. Then set the ultrasonic power to maximum. Once set, press the on button and this will enable the ultrasonic function.



- **Step 6:** To end the cleaning process, press the corresponding key again; if nothing is pressed the ultrasonic will stop when the timer reaches 00:00. Once your part is finished washing, remove it from the ultrasonic cleaner and then rinse down with water. Removing the residue cleaner is an essential step to getting a smooth surface finish.



Main Ultrasonic Features

- Main Ultrasonic Features:
- Ultrasonic generator – with an output frequency of 40khz
- Timer – Can be turned on or off and set anywhere from 1-99 minutes. To increase the process timer by 1 minute press the up arrow button. Hold the up arrow button to increase in 10 minute steps. To decrease by 1 minute press the down arrow button. Hold the down arrow button to decrease in 10 minute steps.
- Voltage: AC220V. -10% / +10%
- Ultrasonic power 1500W max (300st)
- Room temperature: -10 degrees to + 40 degrees
- Room Humidity 35% to 85%
- The Power supply is 220V 50HZ 5AMP and must be both earthed and grounded.

Maintenance

- Empty the liquid out of your Photocentric wash unit after either a month of usage, or when it is no longer cleaning your parts properly, the specific option will depend on how frequently the machine is in use. To empty the liquid, disconnect all power supplies and carefully place the out valve (as seen in the earlier diagram) over a bottle or container. Once positioned turn the valve to release all of the Photocentric cleaner from inside your wash unit. This bottle or container needs to then be sealed and disposed of following your country's regulations and guidelines.
- Use a low power air compressor to clean dust from the control system regularly
- Once a month on emptying the cleaner out of your wash unit we also advise cleaning the inside of the ultrasonic, please do this whilst the machine is turned off, empty and not connected to the power.
- To prevent damage to the wash unit do not replace the cleaning solution more frequently than is needed
- Do not cover the vents of the wash unit
- Do not operate the machine without Photocentric cleaner inside
- It is advised to operate the machine with the lid securely wash unit
- Do not use alcohol, gasoline or flammable solutions. Doing so could cause a fire or explosion and will void the warranty of your machine
- Do not use mineral acids as these could damage your tank.
- Do not touch the tank or cleaning solution during use.
- Do not place your fingers or hands into the tank whilst the cleaner is operating. Doing so may cause discomfort and possible skin irritation.
- Avoid skin contact with solutions and provide adequate ventilation if necessary.
- Do not use solutions containing chlorine bleach.