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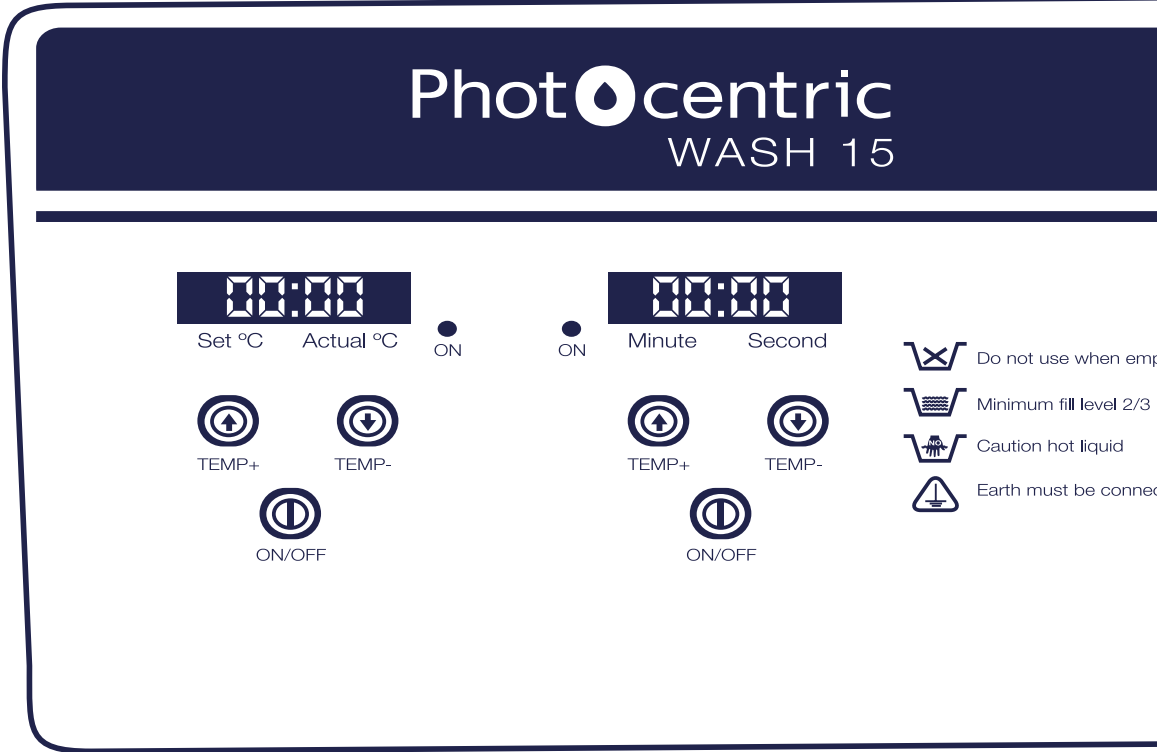


DISPOSAL INSTRUCTIONS
Do not throw this electronic device into the waste when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle or return to Photocentric for recycling.

Photocentric

WASH 15

USER MANUAL
AND INSTALLATION
GUIDE



Photocentric

WASH 15

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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.

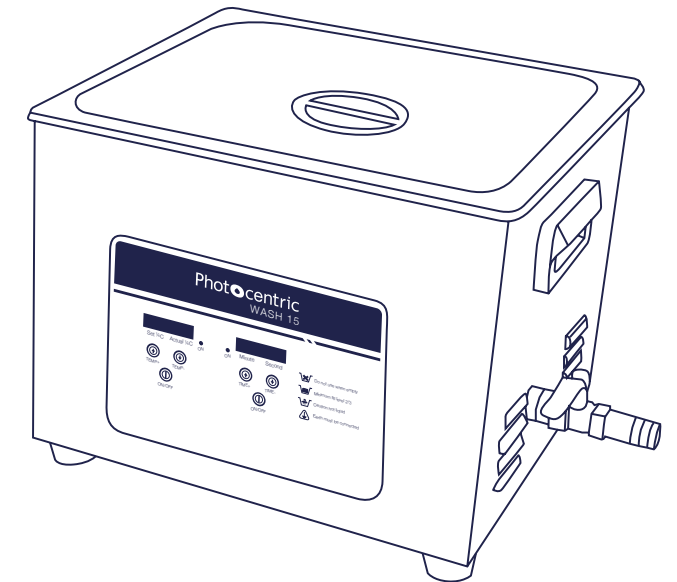
If there is any damage to the wire or machine, please do not connect it to the power supply, instead contact the Service and Support team:

European and Asia Pacific Customers

support@photocentric.co.uk

North and South American Customers

3Dsupport@photocentricusa.com



1. 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 or provided bracket from Photocentric.
- We do not advise using the heat function with Photocentric Cleaner as this could have a negative effect on your parts, the heat function can be used with alternative cleaning agents i.e., soap and water.
- When submerging parts ensure fluid is not displaced out of the bath.
- Maximum running time for a single cycle is 30 minutes.
- Never drop an item onto the base of the bath.
- Never change the fuse for a higher rated one.

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
- Do not use the product if it is in an unstable condition i.e., susceptible to fire or explosion

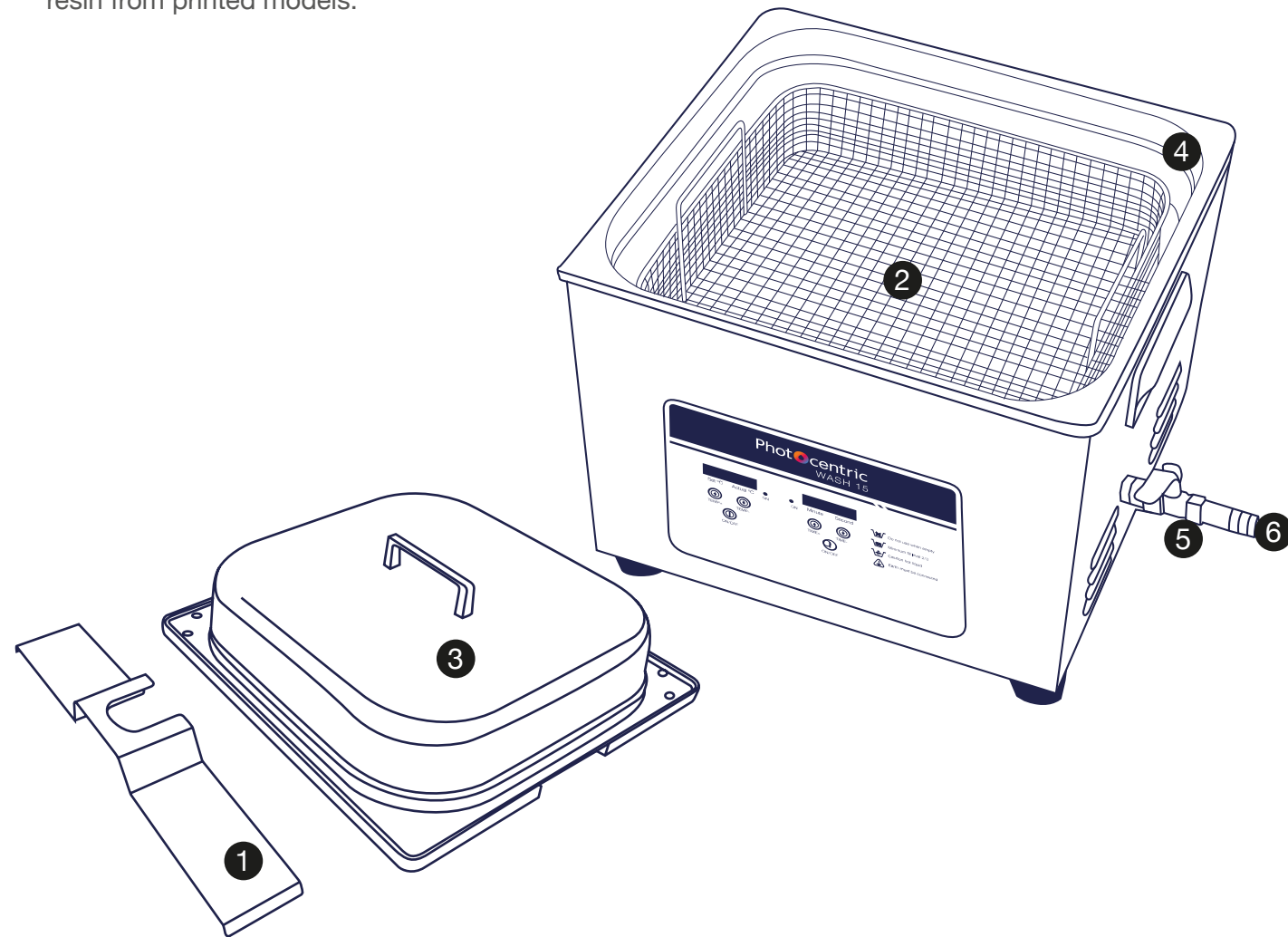
Manufacturer
Photocentric Ltd
Cambridge House, Oxney Road
Peterborough, PE1 5YW, UK
Year of CE Marking: 2019

Certifications:
CE Certified
WEEE approved
FCC approved



2. Photocentric Wash 15 at a glance

The Wash 15 has been designed to remove all residual resin from printed models.



1. **Bracket:** Holds the build platform when washing parts on the platform.
2. **Removable Basket (optional):** Holds parts to wash without the build platform.
3. **Outer Lid:** Limits resin cleaner evaporation and keeps the potentially harmful fumes contained. Keep the lid closed when not in use.
4. **Wash Tank:** Holds the resin cleaner to wash the parts. Tank can hold a maximum of 15 litres of resin cleaner.
5. **Drain Plug:** To remove the used saturated resin cleaner after the parts have been cleaned.
6. **Clip:** Helps to robustly secure the drainpipe to the drain plug.

MAIN FEATURES:

- **Timer** – Can be turned on or off and set anywhere from 1-30 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.
- For cleaning of printed parts with Photocentric resin cleaners, using the temperature settings is not recommended.

3. Unboxing & Installation

3a. Location Requirements

The placement of the Photocentric Wash 15 is important for the safe running and for optimal performance of the wash unit. Photocentric Wash 15 external dimensions are 400(l) x 350 (w) x 280 (h) mm. It weighs 9.5kg. Consider enough space when selecting a stable location for the Photocentric Wash 15 unit. Ensure that there is sufficient room to access the wall outlet and power supply, space for accessories and finally, the proximity to an extraction duct.

All operations involving uncured resin or printed parts in the green state should be performed in a low-light environment so that components have minimal exposure to daylight. It is highly recommended that red ambient lighting is used to prevent early curing. Choose a location where the ambient temperature is in the range of 18-28°C.

3b. Unboxing Photocentric Wash 15

Photocentric Wash 15 is packed in a cardboard enclosure inclusive of foam inserts above and below the main unit. To unbox the unit, open the box from the top. Remove the foam inserts covering the top of the unit and use the side handles to lift carefully from the box. Use safety gloves with a secure grip surface to prevent slipping.

Remove internal packaging to access the accessories.

3c. Power Requirements

- Photocentric Wash 15 requires an earthed mains power supply with a voltage of 100-120VAC- 60Hz or 200-240VAC- 50Hz (depending on the unit).
- Wash 15 power consumption (only when Ultrasonic is in use without the heating function) is rated at 360W.
- Only connect Photocentric Wash 15 to the mains socket using the power cable supplied into the power port, and that the current draw of the items connected to the mains does not exceed the capacity of the fuse or breaker.
- Make sure that the power is off before connecting or disconnecting the power cable.

4. Ultrasonic cleaning principle

The Photocentric wash unit is an ultrasonic cleaner for use in both industrial and domestic usage. Made from high-quality SUS stainless steel plate, the Photocentric wash unit offers a temperature heating element and 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.

5. 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 (2/3 minimum)
- No liquid has splashed on the electronic parts of the machine
- The heating process is not started unless sufficient liquid is placed in the machine
- The power supply is earthed and grounded
- The machine is not moved whilst in use

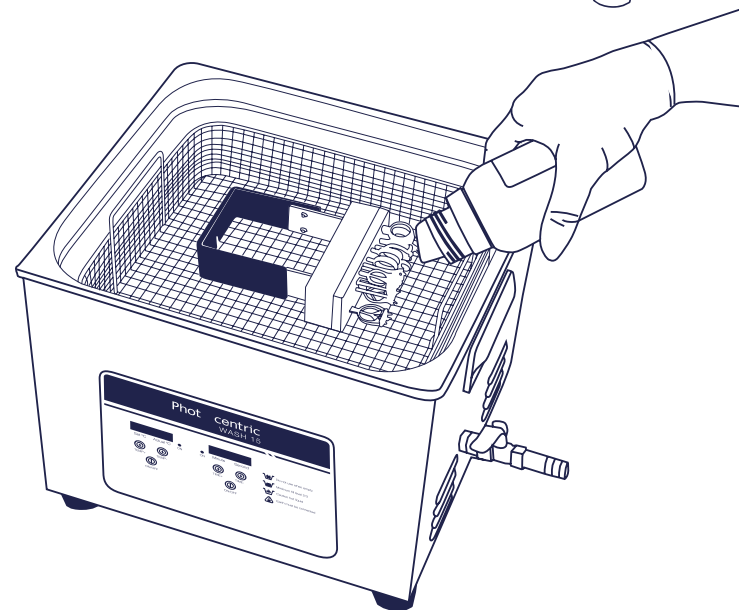
6. Product Operation Instructions

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

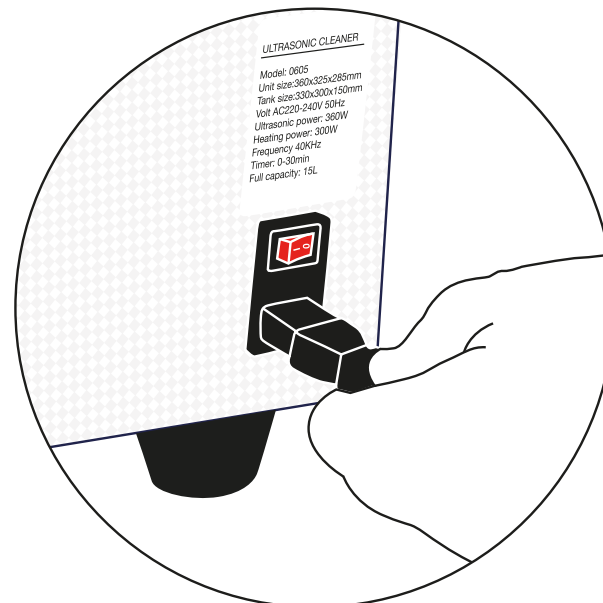
- **Step 1:** Place ultrasonic cleaner on a flat, stable surface.



- **Step 2:** Add Photocentric Cleaner to a level where it will not overflow – approximately 2/3 full. If using the bracket provided, remove the basket from the wash tank.

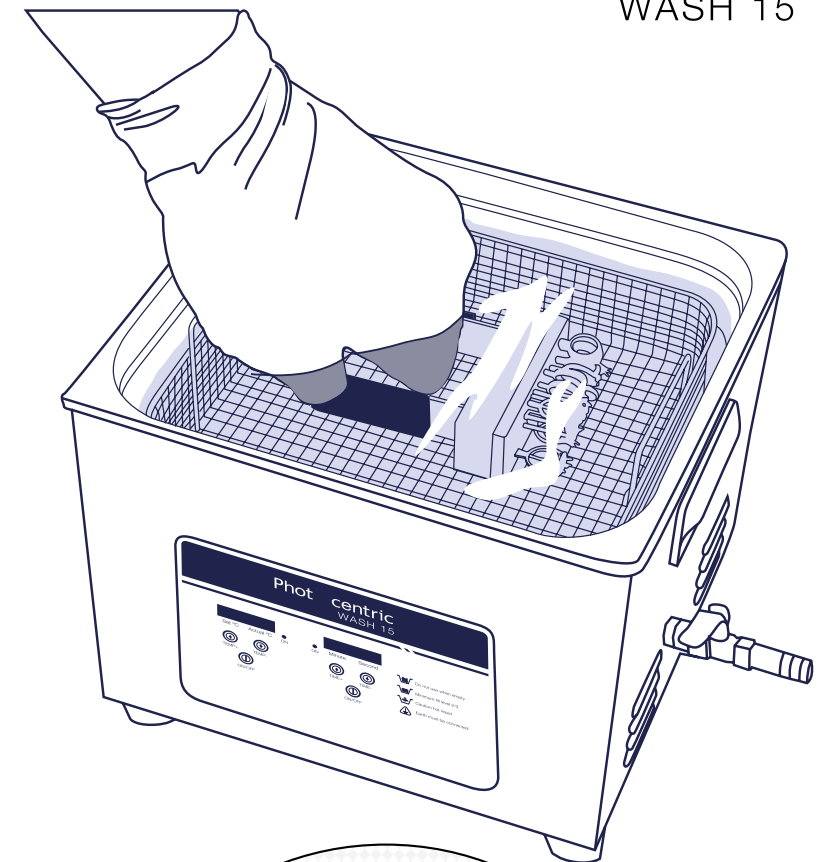


- **Step 3:** Plug in the cleaner and switch on via the switch at the rear of the unit if present, otherwise at the wall socket. (If no buttons are pressed, after eight hours your ultrasonic cleaner will go into power save mode. To restore power, press any button.

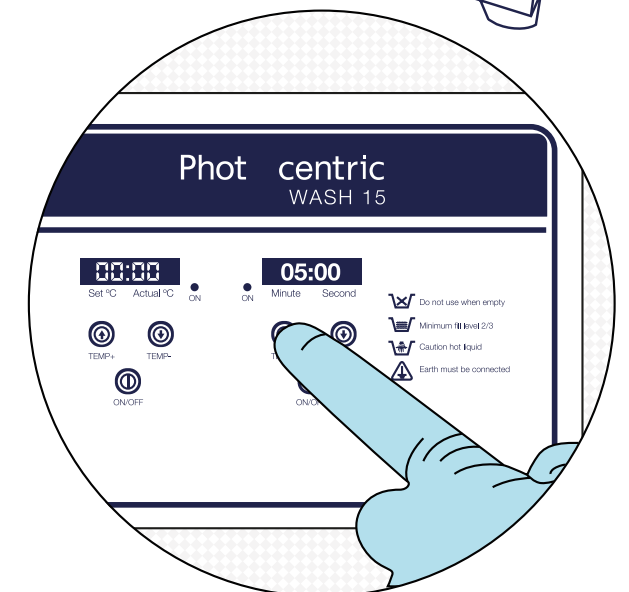


ULTRASONIC CLEANER
Model: 0605
Unit size: 360x325x285mm
Tank size: 330x300x150mm
Volt: AC220-240V 50Hz
Ultrasonic power: 360W
Heating power: 300W
Frequency: 40kHz
Timer: 0-30min
Full capacity: 15L

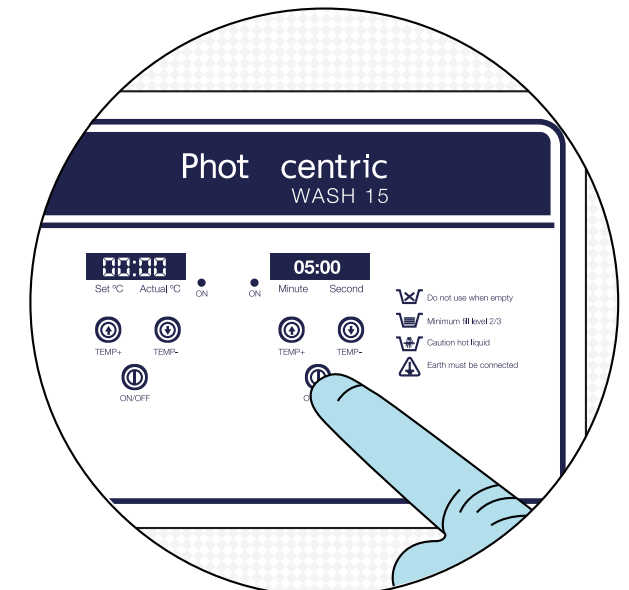
- **Step 4:** Place your printed part or platform fitted to the bracket into the ultrasonic cleaner. If your Photocentric Wash 15 is completely full of liquid with the printed parts immersed, then place the lid back in your cleaner to prevent spillage.



- **Step 5:** Set the timer to the relevant settings. If you are using Photocentric Cleaner check TDS for recommended wash time. Once set, press the on button and this will enable the ultrasonic function.

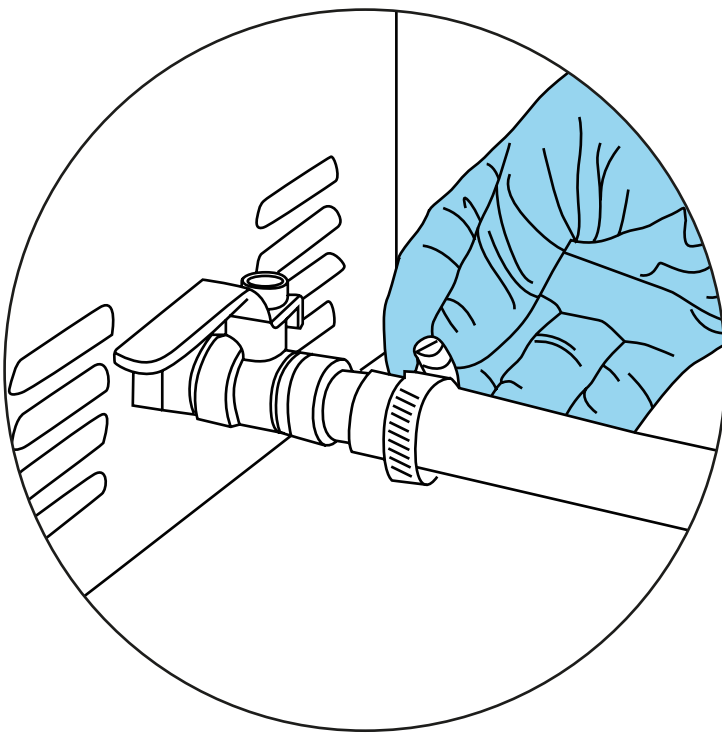


- **Step 6:** To end the cleaning process, press the corresponding key again; if nothing is pressed the ultrasonic will stop when the timer reaches 00:00 - if the heating function is in use the heater will switch on and off to maintain the fluid at the target temperature.



7. 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 below diagram) over a bottle or container. Once positioned turn the valve to release all the Photocentric Cleaner from inside your wash unit. This bottle or container needs to then be sealed and disposed of following your local regulations and guidelines and Cleaner Safety Data Sheet.



- 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 allow temperatures to exceed 70 degrees centigrade.
- 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.

- 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.