



DRAPER[®]
Expert

3, 9 & 27L

ULTRASONIC CLEANING TANKS

92632, 92635, 92639

WARNING!

NOT ALL ITEMS ARE SUITABLE FOR ULTRASONIC CLEANING - READ MANUAL AND UNDERSTAND BEFORE USE.



These instructions accompanying the product are the original instructions. This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all these instructions before assembling, operating or maintaining this product.

This manual has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product.

Whilst every effort has been made to ensure the accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.

1. TITLE PAGE

1.1 INTRODUCTION:

USER MANUAL FOR: 3, 9 & 27L Ultrasonic Cleaning Tanks

Stock No: 92632, 92635 & 92639.

Part No: WRT100

1.2 REVISIONS:

Date first published July 2019.

As our user manuals are continually updated, users should make sure that they use the very latest version.

Downloads are available from: <http://drapertools.com/manuals>

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1.3 UNDERSTANDING THIS MANUALS SAFETY CONTENT:

WARNING! – Information that draws attention to the risk of injury or death.

CAUTION! – Information that draws attention to the risk of damage to the product or surroundings.

1.4 COPYRIGHT © NOTICE:

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DECLARATION OF CONFORMITY	ENCLOSED

3. WARRANTY

3.1 WARRANTY

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, please return the complete tool to your nearest distributor or contact:

Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England.

Telephone Sales Desk: (023) 8049 4333 or:

Product Helpline (023) 8049 4344.

A proof of purchase must be provided.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This warranty period covering labour is 12 months from the date of purchase except where tools are hired out when the warranty period is 90 days from the date of purchase. The warranty is extended to 24 months from the date of purchase for parts only. This warranty does not apply to any consumable parts, any type of battery or normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.

4. INTRODUCTION

4.1 SCOPE

Ultrasonic cleaning is based on the cavitation effect caused by high frequency ultrasonic wave vibration in fluid.

Microscopic bubbles are formed and they implode violently causing the cavitation which creates an intense scrubbing action on the surface of the item being cleaned.

The bubbles are small enough to penetrate microscopic crevices, cleaning them thoroughly. Ultrasonic cleaning is extremely effective at removing dirt and grime which would normally require tedious manual cleaning.

To be used with just water or non volatile cleaning agent can be added.

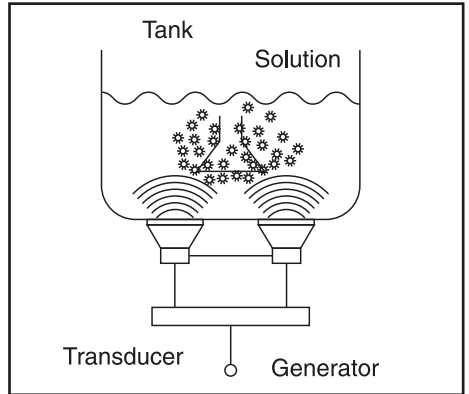
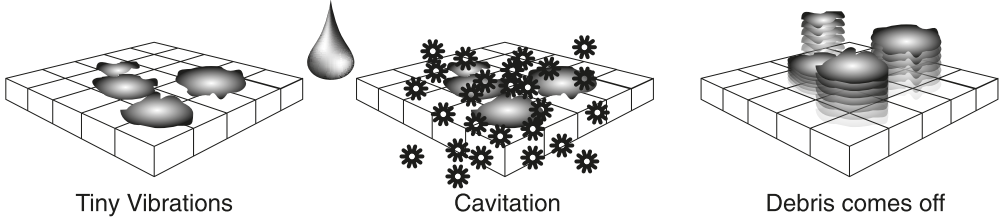


FIG.1

NOTE: Ultrasonic cleaning is an intense microscopic cleaning process, it is NOT designed to clean heavily soiled items, these will require manual cleaning first.

Detergent can be added



4.2 SPECIFICATION

Stock no.....	92632.....	92635	92639
Part no	UCT-3L.....	UCT-9L	UCT-27L
Rated voltage	230V~	230V~	230V~
Rated frequency	40KHz.....	40KHz	40KHz
Ultrasonic power.....	100W.....	200W	500W
Heating power	100W.....	300W	500W
Capacity.....	3Ltr.....	9Ltr	27Ltr
Time setting	1 - 99mins.....	1 - 99mins	1 - 99mins
Temperature adjustment.....	0 - 80°C.....	0 - 80°C	0 - 80°C
Tank Size	240 x 140 x 100mm.....	300 x 240 x 150mm	500 x 300 x 150mm
Overall Size	270 x 170 x 240mm.....	330 x 270 x 310mm	550 x 330 x 360mm

4.3 HANDLING & STORAGE

Although this machine is small in size, care must still be taken when handling and lifting. Dropping this machine will have an effect on the accuracy and may also result in personal injury. This machine is not a toy and must be respected.

The environment will have a negative result on its operation if you are not careful. If the air is damp, components will rust. If the machine is unprotected from dust and debris; components will become clogged: And if not cleaned and maintained correctly or regularly the machine will not perform at its best.

5. HEALTH AND SAFETY INFORMATION

Keep it away from children!

This device is not intended to use by individuals with restricted physical, sensory or metal capacities or those with lack of experience or knowledge, include children, unless they are supervised by an individual who is responsible for their safety or have received training in operating the device.

Store the unit where it is not reachable by children.

Keep the package material away from children.

5.1 SAFETY PRECAUTION

Keep it away from children!

This device is not intended to use by individuals with restricted physical, sensory or mental capacities or those with lack of experience or knowledge, include children, unless they are supervised by an individual who is responsible for their safety or have received training in operating the device.

Please read the following very carefully as failure to comply may invalidate your guarantee

1. DO NOT run the cleaner continuously for more than one hour at a time, as doing so can damage the internal.
2. DO NOT operate the unit without fluid in the tank. Always ensure the fluid is no higher than the max mark; Always ensure there is a minimum depth of 7cm.
3. DO NOT drop any item into the tank as this may cause to the transducer. Always place the items gently into the tank and use the basket whenever possible.
4. The more items that you place in your cleaning bath the less efficient it will clean. It is not advised to overlap items.
Always allow plenty of clear space between the items.
5. Do keep the lid on during use. This will prevent splashes and reduce evaporation of the fluid.
6. Never immerse the machine or power cord in water or other liquid.
7. DO NOT touch the power plug with wet hands, especially when inserting or removing the plug.

8. DO NOT touch the unit of the machine has fallen into water during operation.
Remove the power plug from the socket first.
9. DO NOT disassemble the machine, except by professionals.
10. UNPLUG the power source while filling or emptying the tank.
11. DO NOT spray water or liquid over the device and the panel.
12. DO NOT operate the cleaner without proper grounding.
13. DO NOT place the device on a soft surface, where the vents could be blocked.
14. Always turn the heater off after using as leaving it on can cause the fluid to evaporate and damage the internal components.
15. Upon completion of the cleaning cycle, turn off the heater and isolate the machine from the electrical .
16. Take care when adding or removing items from the cleaning, as the fluid is likely to be hot and displaced fluid can damage the internal components. Any displaced fluid must dried up immediately.
17. In the event of failure/emergency, disconnect the mains supply by removing the plug from the mains socket.

IMPORTANT CAUTION:

1. Not recommended for use with items that can be discoloured, waterlogged, or damaged easily. Loose, delicate, or inlaid items may become dislodged by ultrasonic vibrations.
For example: Semi-precious stones, cloth items, leather products, wood items, costume jewellery, or soft stones like pearls, opals, turquoise, coral, emeralds etc.
2. Do not place mobile phones or non-waterproof watches into tank for cleaning.
3. Do not place glass frames or articles that are made from tortoise shell or abalone shell.
4. When cleaning smaller pieces, place items into the plastic basket, then place basket into tank.

5. HEALTH AND SAFETY INFORMATION

5.2 CONNECTION TO THE POWER SUPPLY

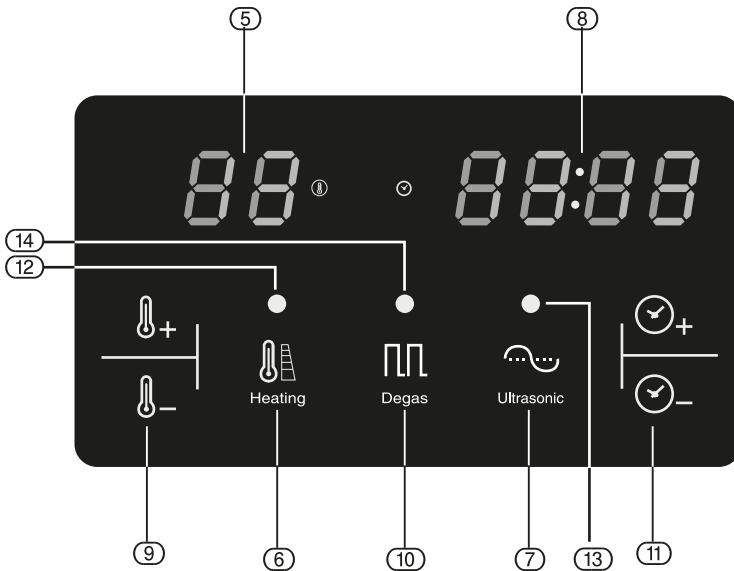
Make sure the power supply information on the machine's rating plate are compatible with the power supply you intend to connect it to.

This device comes supplied with a UK standard 3 pin plug fitted. It is designed for connection to a domestic power supply rated at 230V AC.

Because it is constructed mostly of metal parts, it is a Class 1 machine; meaning, it must have an earth connection in the power supply. This is to prevent electrocution in the event of a failure.

Apart from replacing the fuse in the plug, no other electrical work is recommended on this device.

6. TECHNICAL DESCRIPTION



- ① Lid.
- ② Wire basket.
- ③ Lifting handle.
- ④ Tap and drain.
(Stock Nos.92635 & 92639)
- ⑤ Temperature display.
- ⑥ Heating ON/OFF button.
- ⑦ Ultrasonic ON/OFF button.
- ⑧ Timer display.
- ⑨ Temperature adjuster.
- ⑩ Degas ON/OFF button.
- ⑪ Timer adjuster
- ⑫ Temperature ON/OFF indicator.
- ⑬ Ultrasonic ON/OFF indicator.
- ⑭ Degas ON/OFF indicator.

7. UNPACKING AND CHECKING

7.1 PACKAGING

Carefully remove the machine from the packaging and examine it for any sign of damage that may have happened during shipping. Lay the contents out and check them against the parts shown below. If any part is damaged or missing; please contact the Draper Helpline (the telephone number appears on the Title page) and do not attempt to use the machine.

The packaging material should be retained at least during the guarantee period: in case the machine needs to be returned for repair.

Warning! Some of the packaging materials used may be harmful to children. Do not leave any of these materials in the reach of children.

If any of the packaging is to be thrown away, make sure they are disposed of correctly; according to local regulations.

8. OPERATING THE ULTRASONIC CLEANING TANKS

DO NOT exceed the “MAX” water level.

NOTE: Running the machine without water will damage the machine.

8.1 OPERATION

1. Fill stainless steel tank with water; Plug into mains power supply.
2. Time setting:
Press the “TIME +” key for setting 1-99min working time, Press “TIME –” for reducing the time, each press increase/reduce the timer by 1 minute.
The cleaning stops when the timer counts down to 00.00. If the unit needs to be stopped before the timer runs out, press “ON/OFF” button.
NOTE: Do not run the cleaner continuously for more than 30 minutes.
3. Set temperature:
Press “TEMPERATURE +” key for temperature setting with the range 0°C-80°C. Press the “TEMPERATURE –” to reduce temperature.
Usually, the best results are within 40°C to 60°C.
4. After time and heat setting, press ON/OFF key to start both function.
Press “TEMPERATURE” button “OFF”, the heating function will stop, same with the Ultrasonic function.
5. Empty the tank and clean both the outside and inside of the cleaner with clean and dry cloth for next use.
NOTE: Do not empty the water out until it's cold, Hot water will hurt you and damage the machine itself.

8.2 DIFFERENT WAYS OF CLEANING

General Cleaning

Use only tap water. Use warm temperature about 50°C.

Enhanced Cleaning

Add few drops of standard washing up liquid. Other non-acidic cleaning agents can also be used.

Extensive Cleaning

Removing tarnish, carbon & rust from non-plated metals, it is recommended to use a specialist-cleaning solution designed for use with an ultrasonic cleaner.

WARNING: Strong acid or alkaline cleaning solution will cause corrosion, rust and even puncture of tank or machine body.

The cleaning solution will deteriorate in effectiveness over time and use. It is important to regularly change the fluid and carefully wash the inside of the cleaning tank in order to preserve the effectiveness and longevity of the cleaner.

Do not use corrosive or abrasive cleaning products on the tank, which must be wiped down and dried before it can be stored.

NOTE: If the machine starts to spark, smoke, smell of burnt electrics or displays any other fault the operator must immediately stop the machine, isolate the electrical supply and contact the supplier. Continued used to dangerous.

8. OPERATING THE ULTRASONIC CLEANING TANKS

8.3 ADVANTAGE

Ultrasonic cleaning is widely used throughout industries to remove difficult contaminants from parts during or after the manufacturing process, which might require a stage of cleaning before the next process. In general, if an item can be cleaned with liquid, it can be cleaned much faster and more thoroughly with an ultrasonic cleaner, compared to traditional solvent/scrubbing methods of cleaning in a parts washer, our ultrasonic cleaners:

- Are more effective at removing contamination
- Are quicker to achieve the results you want
- Save employee time (and consequently money).
- Are heated to allow cleaning solvents to work more effectively
- Use timers for simplicity, precision and longevity
- Produce less mess during use
- Less chemistry
- Consistent, repeatable cleaning result.

8.4 FOR BETTER CLEANING EFFECT

- The item should be immersed well into the water.
NOTE: Do not exceed the "MAX" water level mark.
- Warm water (never hot or boiling) and a small amount of washing up liquid will help increase the cleaning performance.
- Make sure there is good space around each part you put in the tank, the more items that you place in the tank the less efficiently it will clean. It is not advised to overlap items, if you lay items one on top of the other, the system doesn't work the way it's supposed to.
- Basket uses. Do not put items directly into the bottom of the tank, a better cleaning effect will result with a suitable basket.
A metal basket absorbs less ultrasonic energy at about 8%.
- Temperature: The higher temperature the better cleaning effect. However, when temperature exceed 70°C-80°C, cleaning effect will be reduced. The temperature range we recommend is between 40°C - 60°C.

9. MAINTENANCE

9.1 GENERAL CLEANING

Use only tap or distilled water. The water should submerge the items to be cleaned, but not exceed the "MAX" water level mark.

9.2 ENHANCED CLEANING

When the items are very dirty, add 1-2 drops of washing up liquid into water to improve the cleaning result.

For certain items/materials a non volatile cleaning agent can be added.

9.3 CARE AND MAINTENANCE

1. Regularly check the mains power plug and cord.
2. DO NOT run the machine for extended time or continuously.
3. DO NOT hit the machine. Handle with care and only move the machine when empty.
4. Wipe machine housing and tank with a dry towel before storing.
5. Keep machine in a cool, dry place when storing.

10. DISPOSAL

10.1 DISPOSAL

- At the end of the machine's working life, or when it can no longer be repaired, ensure that it is disposed of according to national regulations.
- Contact your local authority for details of collection schemes in your area.

In all circumstances:

- Do not dispose of power tools with domestic waste.
- Do not incinerate.
- Do not dispose of WEEE* as unsorted municipal waste.



* *Waste Electrical & Electronic Equipment.*

11. EXPLANATION OF SYMBOLS

11.1 EXPLANATION OF SYMBOLS



Read the instruction manual.



Wear face mask and safety glasses.



Wear protective gloves.



Warning!



WEEE –
Waste Electrical &
Electronic Equipment.

*Do not dispose of Waste Electrical
& Electronic Equipment in with
domestic rubbish.*

CONTACTS

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Internet: drapertools.com

E-mail: sales@drapertools.com

General Enquiries: (023) 8026 6355

Service/Warranty Repair Agent:

For aftersales servicing or warranty repairs, please contact the Draper Tools Helpline for details of an agent in your local area.

YOUR DRAPER STOCKIST

DBDH0719

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