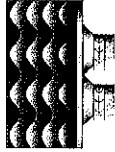


**INTRODUCTION**

Ultrasonic cleaning is on based of Cavitation Effect caused by high frequency ultrasonic wave vibration signal in liquid. Millions of tiny bubbles are created when ultrasonic sound is passed through liquid. It is these tiny bubbles implode violently that cause Cavitation, which have great impact and provide intense scrubbing action on the surface of the cleaning object. Additionally, these bubbles are small enough to penetrate even microscopic crevices, cleaning them thoroughly and consistently.



EUMAX "Memory Quick Series" Ultrasonic cleaner has innovative design of Memory function, Pause Function, Efficient heating and Touch Sensitive Panel. These unique outstanding features bring along a lot of user friendly convenience.

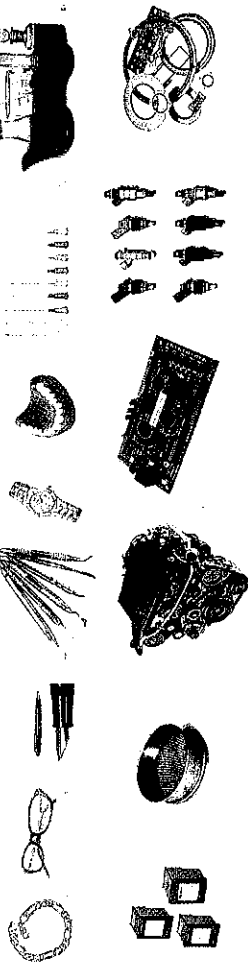
**UNPACKING AND IMPORTANT**

Remove cleaner from its packaging and ensure it is correct for your local supply voltage. Never operate without, or remove the safety ground (earth) from the A.C. power cord / mains lead.

**SAFETY INSTRUCTIONS**

- ★ Do not attempt to remove any screws or panels. There are no user serviceable parts inside.
- ★ Do not operate this unit if the cord of plug is damaged. Please refer to a service centre or qualified electrician for examination and repair
- ★ To avoid electric shock, never touch the cord or socket with wet hands.
- ★ Keep the unit unplugged before filling.  
Always fills the units above the MIN marker line before use.  
Always unplug the unit immediately after use and before emptying.
- ★ Do not operate the unit next to heat sources such as radiators.  
Operate on a dry level surface.
- ★ To avoid electric shock do not immerse the unit into water or other liquid. The unit should not be exposed to dripping or splashing and no objects filled with liquids should be placed on top of it.
- ★ Do not fill the tank with Abrasive or Corrosive Chemicals.  
Repeated cleaning cycles will enhance the cleaning effect.
- ★ The unit should never be left unattended when plugged in.

**SUGGESTED APPLICATIONS**



**DOMESTIC**

**Jewellery:** Necklaces, Rings, Bracelets, etc.

**Watches and Glasses/Sunglasses:**

Waterproof wristwatches, Watch chains, Glasses, Sunglasses etc.

**Toiletry Items:** Electric toothbrush heads,

Electric shaver heads, Razor blades, Combs, Toothbrushes, Dentures etc.

**CDs, DVDs:** Any CD, VCD, DVD, pre-recorded of CD-R/RW

**Office Equipment:** Printer heads, Fountain pen nibs, Wax or Rubber stamps etc.

**Metal Items:** Metal cutlery (knives/forks etc), old coins, Metal badges, Valves, Machine nozzles, small metal parts etc.

**COMMERCIAL/INDUSTRIAL**

Airbrushes/ Sprayguns

Automotive/Aviation components

Calligraphic pens/ nibs

Computer plotter pens/ nibs

Dental & surgical instruments

Fuel injectors

Geological & metallurgical specimens

Hypodermic needles

Inkjet printer cartridges

Jewellery manufacturing

Laboratory glassware & apparatus

Lenses & other optical components

Metal / fibre filters

Metal / rubber seals

Microelectronic circuits & components

Moulding dies

Nozzles

Printed circuit board (PCBs)

Production line cleaning

Scientific & Industrial instruments

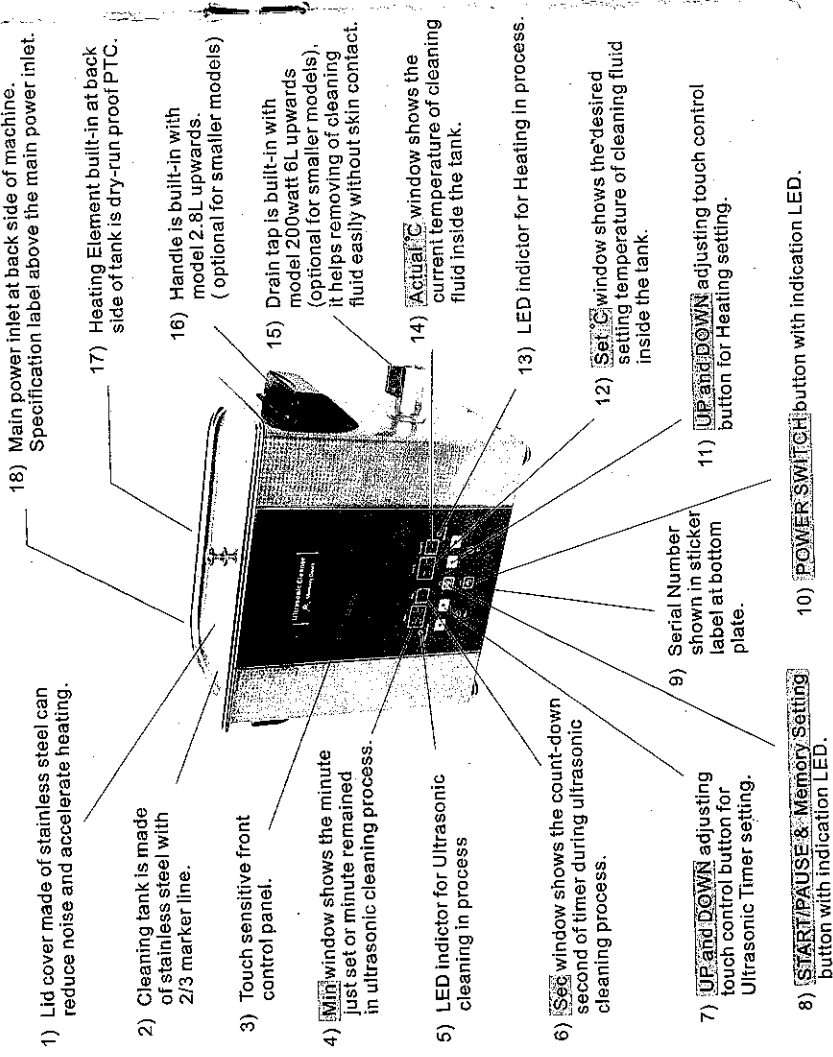
Spectacle frames & lenses

Watches & clockwork



Porous stones such as pearls etc should not be immersed.  
Watches should be fully waterproof (30m or more).  
Any unfirm or inlaid item may become loose.  
Items that are easy to be discoloured are not recommended for ultrasonic cleaning.

Memory Quick Series Model Features Illustration



- 1) Lid cover made of stainless steel can reduce noise and accelerate heating.
- 2) Cleaning tank is made of stainless steel with 2/3 marker line.
- 3) Touch sensitive front control panel.
- 4) **MIN** window shows the minute just set or minute remained in ultrasonic cleaning process.
- 5) LED indicator for Ultrasonic cleaning in process
- 6) **SEC** window shows the count-down second of timer during ultrasonic cleaning process.
- 7) **UP and DOWN** adjusting touch control button for Ultrasonic Timer setting.
- 8) **START/PAUSE & Memory Setting** button with indication LED.
- 9) Serial Number shown in sticker label at bottom plate.
- 10) **POWER SWITCH** button with indication LED.
- 11) **UP and DOWN** adjusting touch control button for Heating setting.
- 12) **SET C** window shows the desired setting temperature of cleaning fluid inside the tank.
- 13) LED indicator for Heating in process.
- 14) **Actual C** window shows the current temperature of cleaning fluid inside the tank.
- 15) Drain tap is built-in with model 200watt 6L upwards (optional for smaller models), it helps removing of cleaning fluid easily without skin contact.
- 16) Handle is built-in with model 2.8L upwards. (optional for smaller models)
- 17) Heating Element built-in at back side of tank is dry-run proof PTC.

OPERATION INSTRUCTIONS

- 1) Check the specification table for the correct operating requirements (located on the rear of the unit).
- 2) Before connecting power, put the unit on a stable and flat working surface. Add water to tank, suitable to completely immerse the items to be cleaned. Using stainless steel basket is highly recommended. ! Never operate the unit without water in the cleaning tank. Always fill the unit above 2/3 marker line indicated on the inside of the tank. Failing to do so, DAMAGE MAY OCCUR.
- 3) Connect the power cable on the rear of the unit and ensure the wall supply is switched ON. All the buttons are touch-sensitive, just slightly touch with finger. Touch **U** button on the front panel to turn on the machine. You are now ready to set the timer and temperature.

Optional special function with 110-220V voltage interchangeable switch at back side.

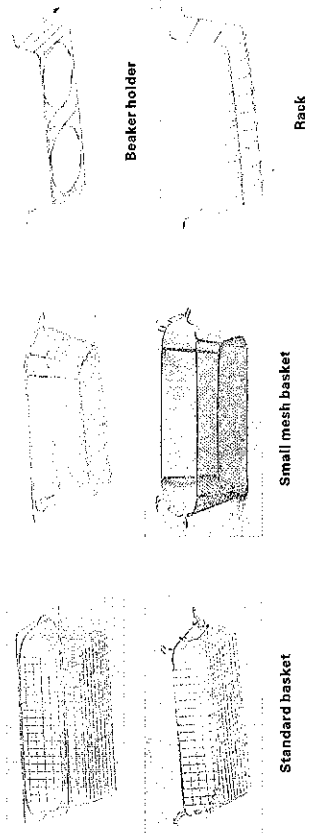
- 4) Setting the Temperature--The actual temperature of the water in the tank is displayed in the "ACTUAL TEMPERATURE" window. The built-in heater can heat the water to a desired temperature by adjusting **U** button to increase or **D** button to decrease in the "Heating" side (RIGHT side) of the front panel. Once the set temperature is set higher than the figure shown in Actual Temperature, heating function starts immediately, RED "Heating" led will illuminate. When the set Temperature is reached, "Heating" led will turn off. Heating function can keep water at SET temperature for long time, not related to Ultrasonic timer setting. Auto-stop of heating function can prevent from excess Heating. To inactivate the heating function, input "00" in SET C window, then Heater will be off. Setting the timer--When power is connected, the timer window displays the figure of last time operation setting (both timer and side setting) before switch off. "Ultrasonic" timer setting is at the LEFT side of the front panel. Touch **U** button to increase or **D** button to decrease for setting the desired cleaning time. Touch **U** (Start/Pause) to start the ultrasonic function, RED "Ultrasonic" led will illuminate. When timer counts down to "00", Ultrasonic function will be stopped automatically and Figure in the "MIN" window will resume the figure of last time the Green button being touched, this is a memory function.
- 6) Memory function and Pause Function **U** (= Start/Pause)--Every time the Green Button is touched; memory function will be activated to keep the "MIN" figure in memory (but not for "SEC"). When timer stops automatically, memorized MIN figure will be resumed. It is convenient for frequent users who repeat with same cleaning time cycle, no need to reset again and again. It is also a PAUSE function button to pause when ultrasonic timer is still running on, touch again **U** can release pause and continue the operation ( need to RESET desired memorized setting figure again after Pause function is used).
- 7) Excessive Heat or Prolonged cleaning time can cause damage of your cleaning items; such conditions are also not health for the machine and will result in shorter product life. **U** button- It is power switch of the machine. When finish using, touch **U** to make sure all the displays turn off. Disconnecting the unit from the mains supply and remove the power cable.
- 8) Emptying the tank--Remove waste liquids to empty the tank after no more need to use. Some models feature drain tap located on the side of the unit, using it can make the removal of the waste liquids effortless and safe. Always ensure the drain tap is "Closed" when filling the tank with water.

**DIFFERENT WAYS OF CLEANING**

- 1) GENERAL CLEANING — use only plain water. Use warm temperature about 50°C.
- 2) ENHANCED CLEANING — add few drops of standard washing up liquid, liquid soap, or detergent into water, other non-acidic based cleaning agents can be also used.
- 3) EXTENSIVE CLEANING — Removing Tarnish, Carbon & Rust from non-plated metals, it is recommended to use specialist cleaning solution in associated using ultrasonic cleaner.

! Warning: Strong acid or alkaline cleaning solution will cause corrosion, rust and even puncture of tank or machine body. To overcome this problem, dilute to mild pH solution or request for tank made of specific grade of stainless steel like SUS316.

**Optional Accessory for Ultrasonic cleaner:**



**Useful information for Guaranty or Repair Purpose**

Model Number	
Date of Purchase	
Invoice/Receipt Number	
Supplier Name, address and contact information	
Serial Number	
Remarks	

End-user is advised to note for different After-Sales-Services condition provided by Local retailer/dealer. Internet Technical Support is always available from manufacturer.

**PRODUCT TECHNICAL PARAMETER**

1)

Model	UD50SH-0.7LQ	UD50SH-1.3LQ	UD50SH-2LQ	UD50SH-2.6LQ	UD50SH-2.1LQ	UD50SH-3LQ	UD50SH-4LQ	UD50SH-4.5LQ
Volume Size (L)	0.7	1.3	2	2.6	2.2	3	4	4.5
Tank Internal Dimension (mm)	152 x 97 x 85	150 x 137 x 85	160 x 197 x 100	152 x 140 x 120	238 x 128 x 65	238 x 188 x 100	300 x 152 x 100	238 x 198 x 150
Operation Frequency (kHz)	40	40	40	40	40	40	40	40
Ultrasonic Power (W)	50	50	50	50	100	100	100	100
Heating	✓	✓	✓	✓	✓	✓	✓	✓
Drainage Valve	NO	NO	○	○	○	○	○	○
Carrying Handle	NO	NO	○	○	○	○	○	○
Cover	✓	✓	✓	✓	✓	✓	✓	✓
Unit Weight (kg)	1.8	2.5	2.7	2.8	3.5	3.8	5	5
Unit / Carton	12	8	8	8	6	6	6	6
Carton Size (cm)	48 x 47 x 43	46 x 42 x 49	48 x 45 x 56	67 x 35 x 51	66 x 47 x 34	67 x 35 x 51	70 x 38 x 60	67 x 35 x 67
Carton Weight	23	21	22	22	23	24	33	33

2)

Model	UD150SH-4LQ	UD150SH-6LQ	UD200SH-6LQ	UD300SH-6LQ	UD300SH-9LQ	UD400SH-13LQ	UD500SH-16LQ	UD600SH-20LQ	UD800SH-28LQ	UD800SH-28LQ	UD800SH-28LQ
Volume Size (L)	4	6	6	10	10	13	15	20	28	28	28
Tank Internal Dimension (mm)	302 x 152 x 100	302 x 152 x 150	302 x 152 x 150	298 x 238 x 150	302 x 240 x 200	322 x 240 x 200	322 x 302 x 150	498 x 238 x 150	498 x 238 x 200	498 x 238 x 200	498 x 238 x 200
Operation Frequency (kHz)	40	40	40	40	40	40	40	40	40	40	40
Ultrasonic Power (W)	150	150	200	300	400	400	500	600	600	600	800
Heating	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Drainage Valve	○	○	○	○	○	○	○	○	○	○	○
Carrying Handle	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cover	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Unit Weight (kg)	5.2	5.5	6.5	9	12	12	13	15	18	18	19
Unit / Carton	6	6	4	4	1	1	1	1	1	1	1
Carton Size (cm)	70 x 38 x 60	69 x 40 x 69	46 x 43 x 72	49 x 36 x 52	52 x 49 x 55	52 x 49 x 55	52 x 49 x 55	70 x 44 x 58	70 x 44 x 58	70 x 44 x 58	70 x 44 x 58
Carton Weight	34	36	30	30	12	14	15	18	20	20	21

✓ : Included    ○ : Optional

NO : Not Available

\* 28kHz or other frequency transducers are available to make for above models.  
\*\* Larger than 26L models or fabricated tank models are available as tailor made.

