



**SD-200H,250H**

**SD Ultrasonic Cleaner Co., Ltd**

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## INTRODUCTION

Thank you for your excellent choice. Please keep this operating manual to use the device properly. Firstly you use the device in safely places and follow the manual when you transfer to a third party.

The company has the right to changes specifications without previous notice.

## SAFETY REGULATION

### 1. Description of Symbols



#### Warning

Information for avoiding injuries or fatal accidents



#### Environment

Information about the operating environment



#### Warning of Explosions

Safety instruction to avoid explosions



#### Attention

Information about technical matters



#### Attention to High Temperature

Instruction to avoid injuries caused by high temperature

### 2. Instructions

For a safety and faultless using of the device you read the following instruction and follow them.



- The only man who is familiarized with safety instructions approved by manufacturer open the device for repairs.
- Pay attention not to reach the liquid into the inside of device.
- To use the device long life keep the cleaning.
- Disconnect the power cable when you do not use for hours.



- Use rated input power.
- Check the power cord for connection.
- Do not use an extension power lead.
- Do not touch the device with wet hands during operation because it may cause an electric shocks.
- In case of any unexpected sounds, smells or smog is generated near the device, stop the device and call to supplier immediately.
- Keep the disconnection of power when you clean the device or maintenance.
- Do not operate with any radiation contaminated samples. The responsibility is only up to you.
- To avoid any injuries, do not put your hands or other parts of your body near the device.
- **Do not operate the device without the cleaning liquid.**



- Keep the device stand up on a level.
- Do not install the device with place slippery.
- To avoid the overheat or fires install the device with enough places for air circulations.
- Keep away from the direct solar radiation.
- Do not set the device outdoors.
- Do not set the device in wet or dusty places to prevent from overheat or short circuits or fires.



- Do not use the device near the place with potentially explosive atmosphere.
- Do not use inflammable materials with cleaning liquid.
- **Do not use the material of acid or alkalinity with cleaning liquid to avoid the water leak.**



- Do not bring any heat-sensitive items near to the device.
- The heat-sensitive items cause a damage or change the shape of items during operations. (glasses, plastic items)
- Be careful when you open the cover of tub the hot water may come out.

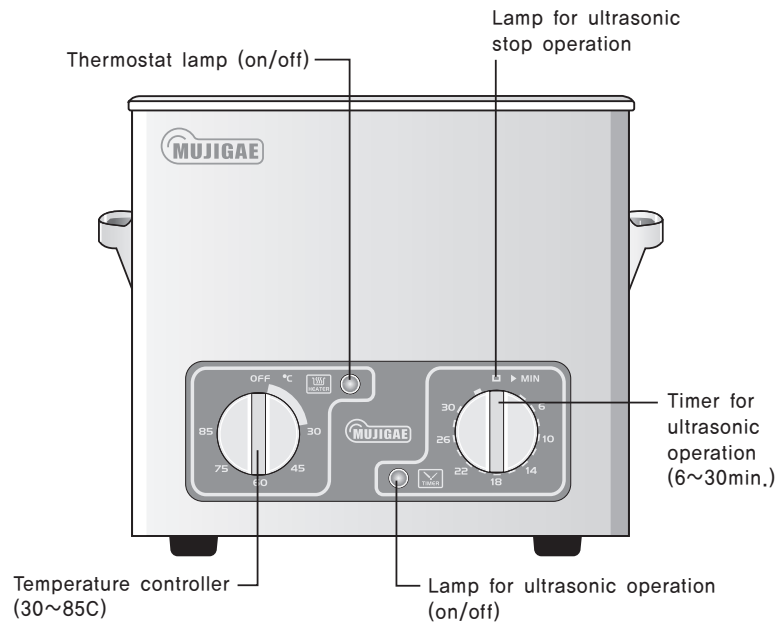
## INSTRUCTION

Ultrasonic Cleaner uses for cleaning the various kinds of dirt like finger marks or oils on the surface located in the irregular narrow spaces at the corner. Built in timer functions (6~30min.) and heat-on functions(30C~85C) to maximize the efficiency of cleaning.

### 1. Specifications

- Timer [6~30min.]
- Temperature[30~85C]
- Frequency : 40KHz
- Stainless body and tub.

### 2. Name / Function of parts



### 3. Parts

Ultrasonic cleaner, Cover, Manual, Fuse( 5Ax2 )

### 4. Before Installation

2 kinds of cleaning method allowed for option before installation.

- Direct Cleaning : operate the device after you add items and liquid in the tub at the same time.
- Indirect Cleaning : First you add items in the baker with liquid then move to the tub. (This is normally used for the acid or other corrosive solutions.)

## SPECIFICATIONS


Model	Frequency	Gross weight	Inside-diameter ( W x L x H )	Outside-diameter ( W x L x H )	Capacity	Ultrasonic output	Current
SD-200H	40KHz	4.2Kg	240 x 140 x 100	300 x 166 x 250	3.3L	100W	1.41A
SD-250H	40KHz	5.6Kg	290 x 150 x 150	350 x 176 x 300	6L	150W	1.56A

Model	Operation	Voltage	Materials
SD-200H	6~30min (30~85°C)+/- 10%	AC220V / 60Hz	[SUS-304]
SD-250H			[SUS-430]

## NOTE

1. Do not impact the device or drop from the high place.
2. Keep max. operation time (30min.)  
\*Stop for the break time 5min. after 30min.
3. Do not operate the device without the liquid.
4. Do not use highly inflammable/acid liquid.

## HOW TO USE

1.  Avoid to install the place marked.
2. Connect the power plug with power outlet.
3. Fill warm water 1,500ml(SD-200H) / 3,000ml(SD-250H) in the tub.  
- Add a ultrasonic cleaning liquid(16plus, 11un) for better performance.  
(Note : It may cause the shape changes for some items like glasses or plastic during heat-mode.)
4. Add the items into the tub.
5. Turn on the Timer for operation.
6. Take out and rinse the remained liquid from the surface of items by using towel.
7. Cover up the cover of tub after operations. (Note : It may cause the shape changes for some items like glasses or plastic during heat-mode.)

## HOW TO KEEP

1. Eliminate the liquid after the plug off the power.
2. Wash the tub and keep well in dry condition.  
(Note : It may cause the shape changes for some items like glasses or plastic during heat-mode.)

## EMERGENCY

Problems	Solutions
No Ultrasonic Operations	① Check the power plug in. ② Check the fuse box. ③ Call A/S center for repair.
Increasing Liquid Temperature during operations	Do not operate the device for hours. (The liquid temperature may go up to 70~80C when you use over 30min without break time.)
No operations / Lamp for operation is normal working	The circuit board may have damaged and call A/S center for repairs.